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OM nucleic - nucleic search, using sw model

August 19, 2002, 15:01:07; Search time 2294.29 Seconds

updates/sec

Run on:

(without alignments)
16536.624 Million cell

SUMMARIES

score greater than or equal to the score of the result being printed, Pred. No. is the number of results predicted by chance to have a

em_htg_inv:* em_htg_other:* em htgo inv:*

em_htg_hum: * em_vi:* -: m _ ma

2 6 5 30: 31: 32: 33 and is derived by analysis of the total score distribution.

Title:	US-09-902-759-38			÷	
Perfect score:	1813	Result		Query	
Sequence:	1 ggagccgccctgggtgtcagcataatgtttgtatgaaaaa 1813	No.	Score	No. Score Match Length DB ID	
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3595312 1797656 segs, 10463268293 residues Total number of hits satisfying chosen parameters: Searched:

Gapop 10.0 , Gapext 1.0

IDENTITY NUC

Scoring table:

Maximum DB seq length: 200000000 Minimum DB seq length: 0

Listing first 45 summaries Maximum Match 100% Post-processing: Minimum Match 0%

GenEmbl: *

Database:

gb_ro:* gb_sts:*

11: 12: 13: 14: :: 16: 17: 18: 19: .. 20 20 22 23: 24:

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		7	1809.8	99.8	1838	σ	AF361746	AF361746 Homo sapi
		ო	1809	99.8	1821	9	AX136161	AX136161 Sequence
		4	1804.8	99.5	1816	9	AX191598	AX191598 Sequence
		ß	1760.4	97.1	1831	9	AX073678	AX073678 Sequence
		9	1691.8	93.3	1734	Φ	BC016868	BC016868 Homo sapi
		7	1659.6	91.5	1855	σ	AB060855	AB060855 Macaca fa
		ω	1171.4	64.6	1173	9	AX191588	AX191588 Sequence
		o,	861.6	47.5		10	AF361882	AF361882 Mus muscu
	υ	10	828.2		187960	σ	AP000866	AP000866 Homo sapi
	U	11	793.2	43.8	101458	01	AP000680	AP000680 Homo sapi
		12	717.4	39.6	736	o	AF277292	AF277292 Homo sapi
		13	531.2	29.3	637	9	AX136493	AX136493 Sequence
	υ	14	453	25.0	541	ø	AX1,36640	AX136640 Sequence
		15	441	24.3	441	φ	AX332845	AX332845 Sequence
	U	16	339	18.7 2	221961	9	AC073435	AC073435 Mus muscu
	υ	17	323.8	17.9	340	w	AX331694	AX331694 Sequence
	U	18	323.8	17.9	340	9	AX333904	AX333904 Sequence
		13	183.2	10.1	81318	N	AC016125	AC016125 Homo sapi
		20	183.2	10.1	101458	N	AP000680	AP000680 Homo sapi
		21	162	9	187960	σ	AP000866	
	U	22	132.8	7.3	637	σ	HSA326182	AJ326182 Homo sapi
	Ų	23	132.8	7.3	674	δ	HSA329044	
	υ	24	120	9.9	698	σ	HSA331517	AJ331517 Homo sapi
		25	79.8	4.4	46240	7	AC105958	
	U	56	75	4.1	81318	7	AC016125	AC016125 Homo sapi
	U	27	17	9. 6.	674	σ	HSA331520	
		28	70.8	3.9	125020	σ	AF429315	
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	υ	30	59.6	3.3	165556	~	AC087190	AC087190 Homo sapi
		31	58.2	3.5	1147	σ	BC007313	BC007313 Homo sapi
		32	58.2	3.2	1161	φ	AX056679	AX056679 Sequence
		33	58.2	3.2	1221	σ	AK000460	AK000460 Homo sapi
	U	34	28	3.5	125020	σ	AF429315	
,		35	54.2	3.0	95209	7	AP004323	
ı	v	36	54.2	3.0	153292	N	AP003635	AP003635 Oryza sat
		37	51.4	2.8	7218	9	I66494	I66494 Sequence 14
	O	38	57	2.8	51	9	AX161199	
	υ	39	21	2.8	51	9	AX161201	AX161201 Sequence
		40	50.4	2.8	57245	7	AC068263	AC068263 Homo sapi
		41	20	2.8	20	9	AX076928	AX076928 Sequence
		42	49.6	2.7	144973	N	AC096689	AC096689 Oryza Bat

em_sts:*

em_pat:*

em_ph:* em_pl:* em_ro:+

DE 301 AGOTGTCTTCATCCCAGCCATCGCAGGCCCCCTTTCACCCACC	Oy 361 aaaaggaggatcaggtgttgtcctacatcaatggggtcacaacaagcaaacctggagtat 4	361 AAAAGGAGGATCAGGTGTTGTCCTACATGGGGTCACAACAAGCAAG
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                                    1813
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Cloning of an Immunoglobulin Family Adhesion Molecule Selectively
bukaryota; metazoa; Unordata; Uraniata; vertebrata; Buteleoscomi
              Mammalia; Sutheria; Primates; Catarrhini; Hominidae; Homo
                                                                                                                                                                     Quertermous, T., Ishida, T. and Hirata, K.-1
                                                                                                                J. Biol. Chem. 276 (19), 16223-16231
                                                                Wohlgemuth, J. and Quertermous, T.
                                                                                                 Expressed by Endothelial Cells
                                               Hirata, K.-I., Ishida, T.,
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Penta, K., Rezaee, M., Yang, E.

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                     University, 300 Pasteur Drive, Falk CVRC, Stanford,
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18	ò	914 TIGGACTGGGGTTGCTGGCTGGTCCTCTTGTACCACGCCGGGGCAAGGCCCTGG 973	ద
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		SOURCE human.
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ָ בַּ		Eukaryota, Metazoa, Chordata, Craniata, Vertebrata Mammalia, Eutheria, Primates, Catarrhini, Homini
3		REFERENCE 1 (bases 1 to 1816)
ò	1201 ccccatccctggtgggtttcttcctctggcttgagccgcatgggtgctgtgctgtga 1260	RS
í		TITLE Human proteins having hydrophobic domains and dnas
9		JOURNAL Patent: WO 0149728-A 120 12-JUL-2001;
δ	1261 tqqtqcctqcccaqaqtcaaqctqqctctctggtatgatgaccccaccactcattggcta 1320	Protegene
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qq	1272 IGGIGCCIGCCCAGAGICAAGCIGGCICTCIGGIAIGAIGACCCCACCACCACTAITGGCIA 1331	source 1. 1816
Ċ		/organism="Homo saplens"
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È	 1441 arcstrtragtaegescripsentotoraggagagagagagagagaggaggaggagtrigga 1500	SMPSRNISIRIEGIOEKDSGPYSCSVNVODKOGKSRGHSIKTLELNVLVPPAPPSCRL
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g	1452 ACCATCTCAGTAAGACCTAAGTGTCCAGGAGAAGAAGAAGAAGAAGAAGAAGAAGTGGATCTGGA 1511	AGVYVCKAHNEVGTAQCNVTLEVSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHCRGK
		ALEEPANDIKEDAIAPRTLPWPKSSDTISKNGTLSSVTSARALRPPHGPPRPGALTPT
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đ	1512 ATTGGGAGGACCTCCACCCCTGACTCCTCTTATGAAGCCAGCTGCTGAAATTAG 1571	
ઠે	1561 ctactcaccaagagtgaggggcagagacttccagtcactgagtctcccaggcccccttga 1620	Onerv Match 99.5%; Score 1804.8; DB 6; Lend
g	1572 CTACTCACCAAGAGTGAGGGCAGAGACTTCCAGTCACTGAGTCTCCCAGGCCCCCTTGA 1631	milarity 99.9%; Pred. No. 0;
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È	1681 ataacctgtcaggctggcttggttaggttttactgggggcagaggatagggaatctcttat 1740	Db 9 GGAGCCGCCTTGGGTGTCAGCGGCTCGGGCTCCCGCGCACGCTCCGGCCG
g	1692 ATAACCHGTCAGGCTGGCTTGGTTTTACTGGGGCAGAGATAGGGAATCTCTTAT 1751	Qy 61 eggcacetgeaggteegtgegteeegeggetggegeeeetgaeteegtee
È	1741 taaaactaacatgaaatatgtgttgttttcatttgcaaatttaaataaa	Db 69 CGGCACCTGCAGGTCCGTGCGTCCCGCGGCTGGCGCCCCTGACTCCGTCC
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È	IBUT CCCGCacga 1809	123
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		Db 189 GGCTGAGTGCCCTCGCGCCCCCCCGGGGCCCAGCTGCAACTGCAACTTY

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

human.

SOURCE

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

Human proteins having hydrophobic domains and dnas encoding these

Protegene Inc. (JP) ; SAGAMI CHEMICAL RESEARCH CENTER (JP) Location/Qualifiers

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804.8; lo. 0; latches	ggagccgccctgggtgtcagcgctcggctcccgcgcacgctccggccgtcgcagcagct 	cggcactgcaggtccgtgcgtccggggctggggccctgactccgtcccggcaggga 	gggccatgatttccctcccggggccctggtgaccaacttgctgcggttttgttcctgg 	ggctgagtgccttcgogccccttcgcgggcccagttgcaactgcacttgccggcaacc 	ggttgcaggcggtggagggaagtggtgcttccagcgtggtacaccttgcacgggg 	aggtgtcttcatcccagccatgggaggtgcctttgtgatgtggttcttcaaacagaaag
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15-AUG-2001 DEFINITION ACCESSION VERSION

AX191598 RESULT Locus Sequence 120 from Patent W00149728.

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a 602 178 238 302 422 478 538 598 658 GGGGTGAGTGCCCTCGCGCCCCTCGCGGGCCCAGCTGCAACTGCACTTGCCCGCCAA 242 ggaggtgtcttcatcccagccatgggaggtgccctttgtgatgtggttcttcaaacagaa 358 418 542 GGGCACCTGCAGGTCCGTGGCGTCCCGCGGCTGGCCCCCTGACTCCGTCCCGGCCAGG 122 GAGGGCCATGATTTCCCTCCCGGGGCCCCTGGTGACCAACTTGCTGCTGCGGTTTTTGTTCCT 182 GGAGGTGTCTTCATCCCAGCCATGGGAGGTGCCCTTTGTGATGTGGTTCTTCTAAACAGAA 362 ATCCTTGGTCTACTCCATGCCCTCCCGGAACCTGTCCCTGCGGCTGGAGGGTCTCCAGGA 482 ggggctgagtgccctcgcgccccctcgcgggcccagctgcaactgcacttgcccgccaa CCGGTTGCAGGCGGTGGAGGGGAAGTGGTGCTTCCAGCGTGGTACACCTTGCACGG gaaagactctggcccctacagctgctccgtgaatgtgcaagacaaaggcaaatctag gggccacagcatcaaaaccttagaactcaatgtactggttcctccagctcctccatcctg GGGCCACAGCATCAAAACCTTAGAACTCAATGTACTGGTTCCTCCAGCTCCTCCATCCTG gagggccatgatttccctcccggggcccctggtgaccaacttgctgcggtttttgttcct **AGAAAAGGAGGATCAGGTGTTGTCCTACAATGGGGTCACAACAAGCAAACCTGGAGT** atcettggtetactecatgeceteceggaacetgteeetgegggetggagggtetecagga cogtotocagggtgtgccccatgtgggggcaaacgtgaccctgagctgccagtctccaag ggagccgccctgggtgtcagcggctcggctcccgcgcacgctccggccgtcgcagcct GGAGCCGCCCTGGGTGTCAGCGGCTCGGCTCCCGCGCACGCTCCGGCCGTCGCGCCGTC cggcacctgcaggtccgt-gcgtcccgcgcggct-ggcgccctgactccgtcccgggccagg ccggttgcaggcggtggagggaggggaagtggtgcttccagcgtggtacaccttgcacgg agaaaaggaggatcaggtgttgtcctacatcaatggggtcacaacaagcaaacctggagt Length 1831 Indels . 9 . 9 80 Patent: WO 0104264-A 12 18-JAN-2001; Score 1760.4; 0; Mismatches 406 Pred. No. 0; Atherosclerosis-associated genes Location/Qualifiers ø Incyte Genomics, Inc. (US) 484 97.1%; 99.08; υ Matches 1807; Conservative /organism="Homo sapiens" Best Local Similarity /db_xref="taxon:9606" BASE COUNT 370 a Query Match Bource 183 299 303 359 363 419 423 239 243 479 599 179 63 119 123 483 539 JOURNAL 61 PEATURES TITLE a 셤 요 셤 ò ద 8 a ठ 쉱 ઠે 셤 ठे ò ठ ò ઠે 吕 ਠੇ 셤 ò

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ą G	663	GAGTAAGCCCGCTGTCCAATACCAGTGGGATCGGCAGCTTCCATCCTTCCAGACTTTCTT 722	
à	719	tgcaccagcattagatgtcatccgtgggtctttaagcctcaccaacctttcgtcttccat 778	
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Š	1248	gctgtgcctgtgatggtgcctgcccagagtcaagctggctctctggtatgatgaccccac 130	0
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	Web site: http://www-shgc.stanford.edu Contact: (Dickson, Mark) mcd@paxil.stanford.edu	ζŏ
	Dickson, M., Schmutz, J., Grimwood, J., Rodriquez, A., and Myers,	ģ
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through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
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                                                                                                                                                                                                                                                                                                            ct="Unknown (protein for MGC:17599)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    444 9
                                              Location/Qualifiers
                                                                                                                                                                  e_type="Colon, adenocarcinoma"
_lib="NIH_MGC_65"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           93.3%;
                                                                                                                                            #"MGC:17599 IMAGE:3850665"
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                                                                                                                                                                                                                                        "Vector: pCMV-SPORT6"
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                                                                                                                                                                                                                                                                                                                                                           ef="GI:16877213"
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qq	1261	TGGGAAAGAGTCACACTCCTGACCCTTAGTACTCTGCCCCCCCC
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RES	RESULT 7	
AB(AB060855 ·	
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	DEFINITION	. Macaca fascicularis brain cDNA clone:QtrA-11419, full insert
ć	MOT BOBOOK	sequence.
	VERSION	AB060855.1 GI:13874503
KE	KEYWORDS	
SOI	SOURCE	Macaca fascicularis adult male temporal lobe right cDNA to mRNA, clone lib:macacuse brain cDNA library OtrA clone:OtrA-11419.
Ū	ORGANISM	
		<pre>Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi, Mammalia, Butheria, Primates, Catarrhini, Cerconithecidae.</pre>
		Cercopithecinae, Macaca.
REI	REFERENCE AUTHORS	<pre>1 (sites) Osada,N., Hida,M., Kusuda,J., Tanuma,R., Iseki,K., Hirai,M.,</pre>
	0.161	Terao, K., Suzuki, Y., Sugano, S. and Hashimoto, K.
	97	
į	JOURNAL	Unpublished
KE	KEFEKENCE AUTHORS	Z (Dases I to 1855) Hashimoto, K., Osada, N., Hida, M., Kusuda, J. and Sugano, S

aggga 120		AGGGA 135	cctgg 180	ccred 195	caacc 240	CAACC 255	cgggg 300	CGCGG 315	198889 360	TAAAG 375	Jagtat 420	AGTAT 435	199aga 480	GGAGA 495	ctaggg 540	TAGTG 555	setgee 600	crecc 615	caagga 660	CAAGGA 675	ccttg 720	rcrrrd 735	ccatgg 780	CCATGG 795	Egacgc 840	rgaccc 855	cctgg 900	ccree 915
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16	61	92	121	136	181	196	241	256	301	316	361.	376	421	436	481	496	541	556	601	616	199	676	721	736	781	796	841	856
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into distinct DraIII sites of DME18S-FL3. XhoI sites just outside

the DraIII sites can be used to isolate the cDNA insert.

(Sugano et al., , Institute of Medical Science, University of

were constructed by oligo-capping method

Libraries

S

(5' end primer [CTTCTGCTCTAAAAGCTGCG]; 3' end primer [CGACCTGCAGCTCGAGCACA]).

Location/Qualifiers

FEATURES

'organism="Macaca fascicularis"

db_xref="taxon:9541"

clone="QtrA-11419"

sex="male"

Custom primer used for sequencing

rokyo).

exclude fragments <1.5kb.The SfiI-digested PCR product was cloned

[ARGIGGCCTTTTTTTTTTTTTTT]; double-stranded cDNA was synthesized

Description: 1st strand cDNA was primed with an oligo(dT) primer using specific 5' and 3' primers and amplified by PCR. The PCR product was digested with SfiI and size selection was performed

AB009864)

PME18S-FL3 (Acc.No.

TOP10

Lab host: Vector:

COMMENT

Draili (CACTGTGTG) Draili (CACCATGTG)

Site1: Site2:

Submitted (27-APR-2001) Katsuyuki Hashimoto, National Institute

Direct Submission

JOURNAL

TITLE

Infectious Diseases, Division of Genetic Resources; 23-1, Toyama

1-chome, Shinjuku-ku, Tokyo 162-8640, Japan

(E-mail:khashi@nih.go.jp

URL thttp://www.nih.go.jp/yoken/genebank/, Tel:81-3-5285-1111(ex.2120), Fax:81-3-5285-1181)

1 ggagccgccctgggtgtcagcggctcggctccgcgcacgctccggccgtcgcgcagcct 60

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4; Gaps

79;

0; Mismatches Pred. No. 0;

DB 9; Length 1855; Indels

91.5%; Score 1659.6;

95.4%;

Matches 1731; Conservative

Best Local Similarity

Query Match

σ

. **2**26 c

translation="MISLPGPLVTNLLRFLPLGLSALAPPSRAELQLHLPANQLQAVE **GGEVVLPAMYTLHARVSSAQPGEVPPVMWFPKDKEKEDQVLSYINGVTTSKPGVSLVY** SMPSRNLSLRLEGLQEKDSGPYSCSVNVQDKNGQASGHSIKTLELNVLVPPAPPSCRL <u>QGVPRVGANVTLSCQSPRSKPAVQYQWDRQLPSPQTPFAPVLDVIRGSLSLTNLSSSM</u> **AGVYVCKAHNEVGTAQCNVTLEVSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHRRGK** aleepandikedalaprtlpwpkssdtiskngtlssvtsaralrpphgpprpgaltpt PSLSSQALPSPRLPTTDGANPQPISLIPGGVSSSGLSRMGAVPVMVPAQSQAGSLV"

'tissue_type="temporal lobe right" 'clone_lib="macaque brain cDNA library QtrA"

141. .1313

dev_stage="adult"

product="hypothetical protein"

codon start=1

protein id="BAB46874.1"

'db xref="GI:13874504"

Oy 1800 gtttgtatgaaaa 1813	813 GTATGTATGGG	AX191588	NOIT NOI NO N	numan. M Homo sapiens Eukaryota; Me Mammalia; Eu	AUTHORS Kato, S. and Kimura, TITLE Human proteins having proteins	FEATURES FOLEGENE INC. (JP) FEATURES Source 1. 1173	/Organicom= nomo saprems /db_xref="taxon:9606" BASE COUNT 221 a 369 c ORIGIN	Query Match Best Local Similarity 99.9%	Oy 126 atgatttccttccgggggccc	Db 1 ATGATTTCCCTCCGGGGCCC Oy 186 agtgcctcgcgccccctg	Db 61 AGTGCCCTCGCGCCCCCTCG Qy 246 caggcggtggagggagaa		Db 181 TCTTCATCCCAGCCATGGGAQ Qy 366 gaggatcaggtgttgtcctac	Db 241 GAGGATCAGGTGTTGTCCTAC
 G 975	a 1020 A 1035	c 1080 - 1095	a 1140 A 1155	t 1200 1215	ia 1260 	a 1320 4 1335	ig 1380 - 1395	la 1439 - A 1455	19 1499 	a 1559 · 1572	1619 	ja 1679 	a 1739	it 1799
	961 aggagccaatgatatcaaggaggatgccattgctccccggaccctgccctggccca 	1021 agagctcagacacaatctccaagaatgggaccctttcctctgtcacctccgcacgagccc	1081 tecggecacecatggeeteceaggeetggtgcattgaeececacgecagtetecaa	1141 gccaggcctgcctcaccaagactgccacgacagatggggccacctcaaccaatat	1201 coccatcctggtggggtttcttcttcttgggcttgagccgatgggtgctgtgagcttgtgagccgatgggtgctgtgagcctgttgagcctgtgagctgtgagtgctggtgagtgctgggggggg	1261 tggtgcctgcccagagtcaagctggctcttggtatgatgacccaccactcattggcta	1321 aaggatttggggteteteetteetataagggteaeetetageaeagaggeetgagteatg 	1381 ggaaag-agtcacactcctgacccttagtactctgcccccacctctttactgtgggaa 	1440 aaccatctcagtaagacctaagtgtccaggagacagaaggaggaagggaagtggatctgg 	1500 aattgggaggagcetecacccacccetgactccttatgaagccagetgctgaaatta 	1560 gctactcaccaagagtgagggcagagacttccagtcactgagtctcccaggccccttg 	1620 atctgtaccccaccctatctaacaccaccttggctcccactccagctccctgtattga 	1680 tataacctgtcaggctggcttggttaggttttactggggcagaggtagggaatctctta 	1740 ttaaaaactaacatgaaatatgtgttgttttcatttgcaaattaaataaa
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	LOCUS		AX191588 1173 bp DNA linear	PAT	
	15-AUG-2001	3-200			
	DEFINITION	NOIL	Sequence 110 from Patent W00149728.		
	ACCESSION	NOIS	AX191588		
	VERSION	N.C	AX191588.1 GI:15209770		
	KEYWORDS	SO			
	SOURCE	[¥1	human.		
	ORG)	ORGANISM			
			Metazoa, Chordata, Craniata, Vertebrata, Eut	tomi;	
	REFERENCE	ENCE	1 (bases 1 to 1173)		
	AUT	AUTHORS	Kato, S. and Kimura, T.	•	
	TITLE	Œ	Human proteins having hydrophobic domains and dnas encoding	these	
			proteins		
	JOU	JOURNAL	Patent: WO 0149728-A 110 12-JUL-2001;		
			Protegene Inc. (JP) ; SAGAMI CHEMICAL RESEARCH CENTER (JP)	_	
	FEATURES	RES	ual		
		source			
	/ordal	nism=	/organism="Homo sapiens"		
	/db/	refall	xrafultaxon.9606		
	HASE	COLUM	221 a 369 c 327 g 256 t		
	NTSTGO				
		:			
٠	One	Query Match	64.6%; Score 1171.4;		
	Best	t Local	Similarity 99.9%; Pred. No. 2.1e-261;		
	Mat	ches	Matches 1172; Conservative 0; Mismatches 1; Indels 0;	Gaps	
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	ò	186	agtgccctcgcgcccctcgcgggcccagctgcaactgcacttgcccgccaaccggttg	g 245	
	e e	61	AGTGCCCTCGCGCCCCTCGCGGGCCCAGCTGCAACTGCCCTTGCCCGCCAACCGGTTG	G 120	
	à	246	caqqcqqtqqaqqqaaqtqqtqcttccaqcqtggtacaccttgcacgggaggt	305	
	•				
	g	121	CAGGCGGTGGAGGGGAAGTGGTGCTTCCAGCGTGGTACACCTTGCACGGGAGGTG	G 180	
	à	306	tetteateceagecatgggaggtgceetttgtgatgtggttetteaaacagaaagaaaa	365	
				· <u> </u>	
	đ	181	TCTTCATCCCAGGCCATGGGAGGTGCCCTTTGTGATGTGGTTCTTCAAACAGAAAAGAAAAG	G 240	
	È	366	gaggatcaggtgttgtcctacatcaatggggtcacaa&agcaaacctggagtatccttg	9 425	
	i	;			
	ខ្ព	241	GAGGATCAGGTGTTGTCCTACATGGGGTCACAACAAGCAAACCTGGAGTATCCTTG	o# / o m	

mRNA

1840 bp

Mus musculus endothelial cell-selective adhesion molecule (Esam)

mRNA, complete cds

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Cloning of an immunoglobulin family adhesion molecule selectively Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Stanford, Stanford 1 (bases 1 to 1840)
Hirata, K.-I., Ishida, T., Penta, K., Rezaee, M., Yang, E. University, 300 Pasteur Drive, Falk CVRC, Submitted (16-MAR-2001) Cardiovascular Medicine, **CSLOGVPYVGTNVTLNCKSPRSKPTAQYQWERLAPSSQVPPGPALDAVRGSLKLTNLS** FTPTPSVSSQALSSPRLPRVDEPPPQAVSLTPGGVSSSALSRMGAVPVMVPAQSQAGS /translation="MILQAGTPETSLLRVLFLGLSTLAAFSRAQMELHVPPGLNKLEA vegeevvlpamytmareeswshprevpilimfleqegkepnqvlsyingvmtnkpgta LVHSISSRNVSLRLGALQEGDSGTYRCSVNVQNDEGKSIGHSIKSIELKVLVPPAPPS **IAMSGVYVCKAQNRVGFAKCNVTLDVMTGSKAAVVAGAVVGTFVGLVLIAGLVLLYQR** rsktleblandikedalaprtlpwtkgsdtiskngtlssvtsaralrppkaapprpgt 'product="endothelial cell-selective adhesion molecule" J. Biol. Chem. 276 (19), 16223-16231 (2001) Quertermous, T., Ishida, T. and Hirata, K.-I. domains; member Wohlgemuth, J. and Quertermous, T. expressed by endothelial cells Location/Qualifiers GI:13991772 2 (bases 1 to 1840) 118. .1302 ដ Direct Submission contains V and /strain="Swiss Webster/NIH" immunoglobulin superfamily" /cell_type="endothelial" 'protein_id="AAK51504.1" Mus musculus musculus" house mouse AF361882.1 /db_xref="taxon:10090" /db_xref="GI:13991773" 404 a 11279107 AF361882 USA /organism="Mus /gene="Esam" /gene="Esam" /note="ESAM; 94305-5406 BASE COUNT

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0	880	GGAGCACTTGTGGGCACTTTTGTTGGTTGGTGCTGATAGCTGGGCTV44ICC1W11W1AC 933
ν.	939	caccgccggggcaaggccctggaggagccagccaatgatatcaaggaggatgccattgct 998
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5	666	
٥.	1000	
ە	1059	tctgtcacctccgcacgagccctccggccaccccatggccctcccaggcctggtgca 1115
۶.	1116	
٠	1120	TITACTCCCACACCCAGTGTCTCTAGCCAGGCCCTGTCCTCACCAAGACTGCCCAGGGTA 1175
>-	1176	gatggggcccacctcaaccaatatcccccatccctggtggggttcttcctcggcttg 123
Д	1180	GATGAACCCCCACCTCAGGCAGTGTCCCTCAGGTGGGGGTTTCTTCTTCTGCTCTG 123
>,	1236	agccgcatgggtgctgtgcctgtgatggtgcctgcccagagtcaagctggctctctggta
Ω	1240	AGCCGCATGGGTGCTGTGATGGTGCCTGCACAGAGTCAGGCTGGGTTCTTGTG
>-	1296	tgatgaccccaccactcattggctaaaggatttggggtctctccttcct
д	1300	
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<u>≻</u> ,	1474	
മ	1477	AGGACAAAAAGGAGGAAATGGACCTGAGGTAGGGGGTTGGGAGTAAGGAGGCTTCACTTCC
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۾	1537	
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ð	1597	CTGGAGGAGACTGCCAGTCAGTGATGCCCCTGGCTCTGTGATCTGTACAACACCCTTA
ب≤	1638	
ည	1655	
<u>≽</u>	1697	gettggttaggttttactggggca-gaggatagggaatetettattaaaactaacatgaa 175
ð	1715	GCTTGGCTGGTTTTGTTGTAGCAGGGGATAGGAAAGATTTTAAAACCTGACTTGAA(277

Qy 1756 atatgtgttgttttcatttgcaaatttaaataaagatacataatgtttgtatgaaa 	1811 1834	Oy 1041 aagaatgggacctttcctctgtcacctccgcacgagcctrcggcacucuauggcctt 1100
Oy 1812 aa 1813 		Oy 1101 cccaggcctggtgcattgacccccacgcccagtctctccagccag
RESULT 10		Oy 1161 agactgcccacgacagatggggcccacctcaaccaatatcccccatccctggtggggtt 1220 Oy
AP000866 187960 bp	DNA linear PRI	11700010010010010000000000000000000000
28-AUG-2001 DEFINITION Homo sapiens genomic DNA, chromosome 11q, clone:RP11-677M1	4,	1221 tottoototggottgagcogcatgggtgottgtgoctgtgatggtgotgccagagtcaa 1
complete sequence. ACCESSION AP000866	a	722
	0	Oy 1281 gctggctctctggtatgatgacccaccactcattggctaaaggatttggggtctctct 1340
SOURCE Homo sapiens DNA, clone:RP11-677M14. ORGANISM Homo sapiens	ı	Db 72280 GCTGGCTCTCTGGTATGATGACCCCACTCATTGGCTAAAGGATTTGGGGTCTCTCCT 72221
ш.	omi;	Qy 1341 tcctataagggtcacctctagcacagaggcctgagtcatgggaaagagtcacactcctga 1400 nh 72220 rcmanaagggtcaccrcmaggaggcctgaggcctgagggcctgagggcctgagggcctgagggcccgagaggcccgagaggcccgagaggcccgagaggcccgagaggcccgagaggcccgagagggcccgagaggcccgagaggccagaggcccgagaggcccagaggcccgagaggcccagaggcccagaggcccagaggcccagaggcccagagaggcccagagaggcccagaggcccagaggcccagaggcccagaggcccagaggcccagaggcccagaggcccagaggcccagaggcccagagaggcccagagaggcccagagaggcccagagaggcccagagaggcccagagaggcccagagaggcccagagaggcccagagagaggcccagagaggcccagagagagagaggcccag
4 Æ 1		
	÷.	1401 cccttagtactctgccccacctctctactgtgggaaaaccacctcagtaagaccaa 14
JOURNAL Published Only in Database (1999) In press REFERENCE 2 (bases 1 to 187960)	u	Db 72160 CCCTTAGTACTCTGCCCCCACCTCTTTACTGTGGGAAAACCATCTCAGTAAGACCTAA 72101
	, Hong-Seog, P., and Sakaki, Y.	Oy 1461 gtgtccaggagacagaaggagaagaagaagaagtggatctggaattgggaggagcctccaccc 1520 Dh
Ę	tute of	
Physical and Chemical Research (RIKEN), Genomic Sciences Center 1-7-22 Suehiro-chou, Tsurumi-ku, Yokohama, Kanagawa 2	(GSC); 230-0045,	OY 1521 accetgaetecetratgaageeagetgetgaaartagetacteaceaagagegaggg 1580
Japan		
(B-mail:hattori@gsc.riken.go.jp, URL:http://hgp.gsc.riken.go.jp/ Tel:81-45-503-9111, Fax:81-45-503-9170)	,	1581 gcagagacttccagtcactgagtctcccaggcccccttgatctgtaccccacccctatct
COMMENT On Aug 27, 2001 this sequence version repla FEATURES Location/Qualifiers		71980 GCAGAGACTICCAGICACTGAGICICCCAGGCCCCCTIGAICIGIACTCCCACCCCTAICI
Source 1187960		Oy 1641 aacaccccttggctcccactccagctccctgtattgatatacctgtcaggctggct
/db_xref="taxon:9606" /-h-x-monome==================================		Db 71920 AACACCACCCTTGGCTCCCACTCCAGTCCTGTATGATATAACCTGTCAGGCTGGCT
/ mapa=11q=	0	Qy 1701 ggttaggttttactggggcagaggatagggaatctcttattaaaactaacatgaaatatg 1760
/clone="RP11-677M14" BASE COUNT 53649 a 43111 c 40795 g 50405 t ORIGIN		
45.78;	Length 187960;	Oy 1761 tgttgttttcatttgcaaatttaaataaagatacataatgtttgtatgaaaaa 1813
Similarity 99.6%; Pred. No. 1.8 0; Conservative 0; Mismatches	Indels 0; Gaps	
		RESULT 11 AP000680/c
Oy 981 aaggaggatgccattgctccccggaccctgccctggcccaagagctcagacacaatctcc Dh 72580 Aggaggatgcattgctcccgaaccccgaacccaacacacac	1040	OCUS 0-MAY-20 EFINITIO
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as soon as it is available and the accession number will
                                                                                                                                                                                                                                                                                                                                                                                                                                              is not known and their order in this-sequence record is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          runs of N, but the exact sizes of the gaps are unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           This record will be updated with the finished sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    arbitrary. Gaps between the contigs are represented as
                                                                                                                                                                                                                                                                                                                                                                                                       * NOTE: This is a 'working draft' sequence. It currently
                                                                                                                                                                                                                                                                                                                                                                                                                           consists of 25 contigs. The true order of the pieces
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 25 contigs. The true order of the pieces is not known and their
                                                                                                                                                                                                                                                                                                                            Submitted (08-NOV-1999) Masahira Hattori, The Institute of
                                                                                               Sukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                       Kitasato Univ., 1-15-1 Kitasato, Sagamihara, Kanagawa 228-8555,
                                                                                                                                                                                                                                                                                                                                                                   and Chemical Research (RIKEN), Genomic Sciences Center (GSC);
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                                                                                                                                                                                                                                                                  Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P.,
Pujiyama,A., Yada,T., Totoki,Y., Watanabe,H. and Sakaki,Y.
                                                                                                                                                          Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P.,
Pujiyama,A., Yada,T., Totoki,Y., Watanabe,H. and Sakaki,Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         On May 31, 2000 this sequence version replaced gi:6997554.
                                                                                                                   Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Quality coverage: 4.65x in Q20 bases; sum-of-contigs
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6701 bp in length
6133 bp in length
                                                                                                                                                                                                                                                                                                                                                                                                                                 URL:http://hgp.gsc.riken.go.jp/, Tel:81-42-778-9923.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequencing vector: PCR products; 100% of reads
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Consensus quality: 89733 bases at least Q40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Consensus quality: 95050 bases at least Q30
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Assembly program: Phrap; version 0.990329
                                                                                                                                                                                                                         Published Only in DataBase (1999) In press
                                                                                                                                                                                                     Homo sapiens 101,458 genomic DNA of 11q24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Web site: http://hgp.gsc.riken.go.jp/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Insert size: 99058; sum-of-contigs
                                                                                                                                                                                                                                                                                                                                                                                                             Japan (E-mail:hattori@gsc.riken.go.jp,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Contact: hattori@gsc.riken.go.jp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Center project name: HumDraftll
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ----- Project Information
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ----- Summary Statistics
                                                        Homo sapiens DNA, clone: CMB9-25K9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Center clone name: CMB9-25K9
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                 AP000680.2 GI:8118868
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97800 97899; gap of 100.hp
97900 100121; contig of 2222 bp in length
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                                            86476: contig of 2793 bp
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2401 others 27730 t D /note="assembly_fragment" BASE COUNT 28116 a 21006 c 22205 .101458 . 97799 83684. .86476 .89055 .92718 .94573 100222. 91023 96052. 97900. 89156 92819 94674 86577 /note="assembly_fragment" /note="assembly_fragment" /note="assembly_fragment" /note="assembly_fragment" /note="assembly_fragment" /note="assembly_fragment" /note="assembly_fragment" /note="assembly_fragment" misc_feature misc_feature misc_feature misc_feature misc_feature misc_feature misc feature misc feature misc feature BASE COUNT

vector_side:right

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misc_feature

of 2933 bp in length

82078: contig

82179. .83583

Length 101458

Score 793.2; DB 2;

43.8%;

Query Match

1280 agctggctctctggtatgatgaccccaccactcattggctaaaggatttggggtctctcc 1339 aaggagatgccattgctccccggaccttgccct-ggcccaagagctcagacacaatctc 1039 1099 1219 57210 AAGACTGCCCACGACAGATGGGGCCCACCCTCAACCATATCCCCCATCCTGGTGGGT 57151 57090 AGCTEGETETEGETATGATGACCCCACCACTCATTGGCTAAAGGATTT-GGGTCTCTCC 57032 1399 57031 TICCIAIAAGGGICACCICIAGCACAGAGGCCIGAGICAI-GGAAAGAGICACACICCIG 56973 57390 AGGGAGGATGCCATTGCTCCCGGACCCTGCCCTGGGCCCAAGAGCTCAGACACAATCTC 57331 1159 57091 57330 CAAGAATGGGACCCTTTCCTCTGTCACCTCCGCACGAGCCCTCCGGCCACCCCATGGCCC 57271 Gaps caagaatgggacctttcctctgtcacctccgcacgagcctccggccacccatggccc aagactgcccacgacagatggggcccacctcaaccaatatcccccatcctggtggggt ttectataagggteacetetageacagaggeetgagteatgggaaagagteacaeteetg THETTECTERGETTERGECEGCATGGGTGCTGTGCCTGTGATGGTGCCTGCCCAGAGTCA 3. Indels ۳ .. Pred. No. 2.2e-173; 0; Mismatches 99.3%; Conservative Best Local Similarity Matches 828; 1340 981 1160 1040 57150

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	CACCCTCATTCTCCTCCTTATCAAGCCAGCTGAAATTAGCTACTCCTCAAGAGTGAGG	0 ggcagagacttccagtcartgagtctcccaggccccttgatctgtacccaccctttc	0 taacaccacttggctcccactccagctccctgtattgatataacctgtcaggctggct	0 tggttaggttttactggggcagaggatagggaatctcttattaaaactaacatgaaatat	grgregerengeaaarraaaaraaagaracaraaggeregaaaaa 		AF277292 736 bp . mRNA	ON Homo sapiens C4orf1 mRNA. N AR277292		Ž	sm Homo sapiens Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleo Mammalia: Butheria: Primates: Catarrhini; Hominidae: Homo	•	Sim, D. L. C., Yeo, W.M. and Chow, V. T.K. The novel human HUEL gene (C40rfl) encodes a	, (and dispinate mucinal chamstocarton in a	2 (bases 1 t		Submitted Singapore	Location/Qualifiers	rce m="Homo sapiens"	/db_xref="taxon:9606" /tissue type="bone marrow"	
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                                                    similar to XPA DNA repair protein's DNA-binding
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	gene sets JOURNAL Patent: WO 0194629-A 3354 13-DEC-2001;	5
	TITLE Cancer gene determination and therapeutic screening using signature	1919
	Young, P.E., Augustus, M., Carter, K.C. Horrigan, S., Soppet, D.R. and Weaver	ৰ
Job time: 4324 sec	Bukary Mamma	2 22
Search completed: August	KEYWORDS . SOURCE human . ORGANISM Homo ganjens	KEYWORI SOURCE
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Db 181 TTATGAAGCCAGCTG	175 TAINTAACACCCTTGGNTCCCACTCCAGNTCCCTGTATTGATAAACACTGTCAGGCT 116	đ
Qy 1536 ttatgaagccagctg	1636 tatctaacaccaccttggctcccactccagctccctgtattgatataacctgtcaggct 1695	ઠે
DD 121 AAGGAGAAGAGGAAG	235 GAGGGGCAGAGACTTCCAGTCACTGAGTTTCCCAGGCCCCCTTGATNTGTACCCCACCCC	qq
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and is derived by analysis of the total score distribution.

AAX52221 standard; DNA; 1813 BP.

Primer specific fo

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abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
                                                                                                                                                                                        fibromodulin; dermal scarring; Usher Syndrome; Atrophia areata;
                                                                               Secreted protein; transmembrane protein; human; enterocolitis;
                                                                                                                                                                  Parkinson's disease; Alzheimer's disease; ALS; neuropathy;
                                                                                                                           congenital microvillus atrophy; skin disease; cell growth
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                                        Protein PRO246 cDNA clone DNA35639-1172
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preservation and maintenance of gastrointestinal mucosa and the repair Zollinger-Ellison syndrome, gastrointestinal ulceration and congenital AAX52213-74 encode secreted and transmembrane human proteins, and are obtained from cDNA libraries, prepared from fetal lung, fetal kidney, fetal brain, fetal liver and fetal retina. The encoded polypeptides e.g. PRO211 and PRO217 can be used for disorders associated with the New isolated human genes and polypeptides used in, e.g. treatment of have specific uses based on their homology to known polypeptides, microvillus atrophy), skin diseases associated with abnormal of acute and chronic mucosal lesions (e.g. enterocolitis, Goddard A, Gurney AL, Pennica D, Wood WI, Claim 2; Fig 16; 320pp; English. gastrointestinal ulceration 97US-0066120 97US-0066466 97US-0065693 97US-0066364 97US-0066772 97US-0066770 97US-0066511 97US-0066453 (GETH) GENENTECH INC. WPI; 1999-229533/19 P-PSDB; AAY13351. 24-NOV-1997; 18-NOV-1997; 24-NOV-1997 24-NOV-1997 24-NOV-1997 17-NOV-1997 21-NOV-1997 21-NOV-1997 24-NOV-1997 Chen J, FEX

97US-0064248 97US-0064809

07-NOV-1997;

12-NOV-1997

Yuan J;

healing and tissue repair; PRO317 can be used for treating problems of cell growth and development, diseases related to growth or survival of neuropathies or cancer. PRO265 can be used as for fibromodulin, e.g. for reducing dermal scarring. PRO264 can be used as a target for anti-tumor drugs. PRO533 may be used in the treatment of Usher Syndrome or Atrophia the kidney, uterus, endometrium, blood vessels, or related tissue, e.g. polypeptides and portions may have therapeutic applications in wound nerve cells including Parkinson's disease, Alzheimer's disease, ALS, areata; PRO269 can be used as an anti-thrombotic agent; PRO287 in the heart of genital tract 88888888

keratinocyte differentiation (e.g. psoriasis, epithelial cancers such as lung squamous cell carcinoma of the vulva and gliomas), potent effects

Sequence 1813 BP; 368 A; 559 C; 484 G; 402 T; 0 other;

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cancer. For therapeutic use,
overexpression being indicative of
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- 1.B human PRO246 nucleotide sequence. PRO246 receptor. The invention virus cell surface represents a probably a seguence This
 - antibodies are used in the production of the antibodies. The antibodies nd nucleic acids encoding them are used for diagnosing a tumour in a mammal. The antibodies are used for inhibiting the growth of tumour of tumour cells polypeptides Vectors and host cells comprising the nucleic acid encoding antibodies which bind to a polypeptide. The "PRO" poly encoded by genes which are over expressed in the genome
 - Can or immunological and identifying compounds that inhibit a biological or immunologica activity of and/or expression of a PRO187, PRO533, PRO214, PRO240, PRO211, PRO230, PRO261, PRO246 or PRO317 polypeptide. The antibody

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- conjugating the antibody to a prodrug-activating enzyme which converts ጵ (ADEPT) therapy mediated prodrug епzуше antibody dependent in
 - be fluorescently flow an anti-cancer drug. The antibodies can microscopy, monitored by light and labelled ដ prodrug a CC prodrug CC label fluorimetry CC for dia

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adipocyte; A-peptide; factor VIIA; gene therapy;

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Homo sapiens

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Filvaroff E, Sherwood

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Tumas D, Watanabe CK, Wood WI,

Gurney AL,

Gerritsen ME, Goddard A, Godowski PJ,

Stewart TA,

WPI; 2001-408281/43

P-PSDB; AAU12340.

other PRO

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Beresini M,

Baker KP, Smith V,

Desnoyers L,

Deforge L,

polypeptides, link bioactive molecules to cells expressing

PRO polypeptides, and detect the presence of mammalian tumours e.g.

AAS21244-AAS21518 encode for novel human secretory and transmembrane

Claim 3; Fig 337; 813pp; English lung, breast, prostate, cervical

The PRO polypeptides are useful to detect other to link bioactive molecules to cells expressing

PRO polypeptides. polypeptides, --

Isolated, secretory and transmembrane PRO polypeptide used to detect

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proliferation or differentiation of chondrocytes, the proliferation or cartilage, the proliferation of inner ear utricular supporting cells or skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide to factor VIIA. The PRO polypeptides can be used in assays to identify molecules involved in binding interactions. The polynucleotides encoding the PRO polypeptides may modulate glucose or free fatty acid uptake by colon monocytes (PBMCs), or the proliferation of endothelial cells. Some of Some of the 275 sequences are also useful to stimulate the release of rectal, cervical or liver tumours by comparing PRO gene expression in pericyte cells, the release of proteoglycans from polypeptide expression in a cell sample to that in a control sample. PRO polypeptides can be used to generate probes, antisense RNA/DNA of T-lymphocytes, the release of a cytokine from peripheral blood transgenic or knock out animals and can be used in gene therapy PRO polypeptides, and to detect the presence of mammalian lung, tumour necrosis factor-alpha (TNF-alpha) from human blood, breast, prostate,

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useful for diagnosing and treating cancers
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                                                                                                                                   Therefore, antagonists of PRO proteins are useful for the treatment of
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                                                       genome of tumour
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                                                                                                        overexpression of the gene product and contributes to tumourigenesis
                                                                               cells. The gene amplification is expected to be associated with the
The present invention relates to PRO proteins and coding sequences.
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                                                                                                                                                               benign or malignant tumours, leukaemias, lymphoid malignancies and
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                                                   It was found that the PRO genes are amplified in the
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PRO6309; cell death; genetic disorder; transgenic animal; gene therapy PRO1183; PRO1272; PRO1419; PRO4999; PRO7170; PRO248; PRO353; PRO1318; PRO246; PRO265; PRO941; PRO10096; PRO6003; PRO6004; PRO350; PRO2630; PRO1600; PRO9940; PRO533; PRO301; PRO187; PRO337; PRO1411; PRO4356;

Homo sapiens

Location/Qualifiers ಥ 126..1298 126..212 /*tag= /*tag= sig_peptide Š 80

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22-MAY-2000; 2000WO-US14042

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2000WO-US05601. 2000WO-US05841 17-MAY-2000; 2000WO-US13705 99WO-US21547 2000WO-US07377 2000WO-US08439 2000WO-US13358 99US-0145070 99WO-US28565 99US-0169495 2000WO-US00219 2000WO-US04341 2000WO-US04342 2000WO-US04414 99US-0145698 99US-0149396 99WO-US20111 99WO-US20594 99WO-US21090 99WO-US28313 99WO-US28301 30-MAR-2000; 01-MAR-2000; 18-FEB-2000; 18-FEB-2000; 22-FEB-2000; 02-MAR-2000; 20-MAR-2000; 05-JAN-2000; 15-MAY-2000; 15-JUN-1999; 20-JUL-1999; 01-SEP-1999; 15-SEP-1999; 26-JUL-1999; 17-AUG-1999 08-SEP-1999 15-SEP-1999 01-DEC-1999 02-DEC-1999 07-DEC-1999 30-NOV-1999

(GETH) GENENTECH INC.

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ņ D, Watanabe CK, Williams PM; Mather JP, Napier MA, Pan Goddard A; Eaton DI; Gerritsen ME, Desnoyers L, Botstein DA, Stewart TA, Tumas Gao W, Gerber H, Godowski PJ, Gurney AL, Kljavin IJ, Ashkenazi AJ, Baker KP, Fong S, Paoni NF, Roy MA, Zhang Z; Ferrara N, Wood WI,

WPI; 2001-050091/06 P-PSDB; AAC87040

transmembrane polypeptide is useful for gene therapy and identification Isolated nucleic acid molecule encoding a PRO polypeptide which is a of related polypeptides -XIIIIIXXXXXIIIXX

Claim 2; Fig 57; 244pp; English

polypeptide. The specification describes human polypeptides, designated PRO6004, PRO350, PRO2630 and PRO6309. The biological activity of cells analysing genetic disorders, and to produce transgenic animals which are ů can be modulated with agents that bind to these polypeptides, resulting PROJS6, PRO444, PRO183, PRO185, PRO210, PRO215, PRO217, PRO242, PRO288, PRO365, PRO1361, PRO1308, PRO1183, PRO1272, PRO1419, PRO4999, PRO7170, PRO248, PRO353, PRO1318, PRO1600, PRO9940, PRO533, PRO301, PRO187, polypeptides, as a hybridisation probe to screen libraries to isolate reagents. The polynucleotides can also be used in gene therapy e.g. homologous sequences, or to map the gene. They may also be used for PRO337, PRO1411, PRO4356, PRO246, PRO265, PRO941, PRO10096, PRO6003 useful for the development and screening of therapeutically useful The present sequence encodes a human secreted and transmembrane in the death of the cells. The polynucleotides encoding these polypeptides are useful in the recombinant production of the replace a defective gene.

T; 0 other; Sequence 1813 BP; 368 A; 559 C; 484 G; 402

Gaps Length 1813; ö Indela 22; . 0 8 0; Mismatches Pred. No. 0; 100.0%; Score 1813; 100.04; Matches 1813; Conservative Best Local Similarity Query Match

- 9 9 ggagccgccctgggtgtcagcggctcggctccggcacgctccggccgtcgcgcagcct ggagccgcctgggtgtcagcggctcggctccgcgcacgctccggccgtcgcgcagcct ద ઠે
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KW antiarthritic, antilnfertility, antidiabetic, antiviral, diabetes; KW ophthalmological, gene therapy, skin disease, gastrointestinal disorder; KW ischaemia, inflammation, ss. xx	Oy 1201 ccccatcctggtgggtttcttcctctggcttgagccgcatgggtgctgtgcctgtga 1260
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(GETH) GENENTECH INC

99WO-US00219

05-JAN-2000

Ä Gerritsen ME, Goddard Kljavin IJ; Ferrara N; Tumas D; Eaton DL, Stewart TA, Hillan KJ, ų Fong S, Gao W, Gerber H, Godowski PJ, Grimaldi CJ, Gurney AL, Mather JP, Pan J, Paoni NF, Roy MA, Desnoyers Botstein D, Williams PM, Wood WI; Ashkenazi AJ, Filvaroff E, Mather JP,

WPI; 2001-081051/09 P-PSDB; AAB80219.

the treatment of skin diseases (e.g. psoriasis), cancers (e.g. lung nucleic acids encoding PRO polypeptides which are useful carcinoma) and neurodegenerative diseases (e.g. Alzheimer's disease) squamous cell one

Claim 2; Fig 16; 393pp; English.

useful for treating skin diseases (e.g. psoriasis), cancers (e.g. lung squamous cell carcinoma), gastrointestinal disorders (e.g. The PRO nucleic acids have applications in molecular biology, including secreted and transmembrane PRO polypeptides. The PRO polypeptides are present sequence is one of sixty one nucleic acids encoding novel enterocolitis), neurodegenerative diseases (e.g. Alzheimer's disease ischaemia, atherosclerosis), inflammatory disorders (e.g. asthma rheumatoid arthritis, multiple sclerosis), infertility, AIDS and use as hybridization probes, and in chromosome and gene mapping endometrial bleeding angiogenesis, ischaemias such as coronary Parkinson's disease), wound repair, cardiovascular disorders diabetes and retinal disorders such as retinitis pigmentosum. The

Sequence 1813 BP; 368 A; 559 C; 484 G; 402 T; 0 other

Gaps ö 1813 Length Indels 22; ö B Pred. No. 0; 0; Mismatches Score 1813; 100.0%; 100.0%; Conservative Local Similarity Matches 1813; Query Match Best

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1801 tttgtatgaaaa 1813

AAC97441 standard; cDNA; 1813 BP.

AAC97441;

(first entry) 28-FEB-2001 Human angiogenesis-associated protein PRO246 cDNA, SEQ ID NO:95

Crohn's disease; psoriasis; endometriosis; ulcer; wound healing; cancer; Human; angiogenesis-associated protein; PRO; endothelial cell growth; cardiac hypertrophy; cardiovascular disorder; endothelial disorder; myocardial infarction; diabetic retinopathy; rheumatoid arthritis; Alzheimer's disease; Huntington's disease; stroke; drug screening; angiogenic disorder; atherosclerosis; osteoporosis; hypertension; gene therapy; transgenic animal; ss.

Homo sapiens

WO200053753-A2

14-SEP-2000

05-JAN-2000; 2000WO-US00219

99WO-US12252 99US-0141037 99US-0144758 99US-0145698 02-JUN-1999; 12-MAR-1999; 14-MAY-1999; 23-JUN-1999 20-JUL-1999

99WO-US20594 99WO-US21090 99WO-US21547 99WO-US23089 99WO-US20111 05-OCT-1999; 01-SEP-1999 08-SEP-1999 15-SEP-1999 15-SEP-1999

99WO-US28313 99WO-US28409 99WO-US28565 30-NOV-1999

GETH) GENENTECH INC.

AL, Hillan KJ, Kuo SS, Mark MR, Marsters SA; Watanabe CK, Williams PM, Wood WI; Goddard A; Gerber H, Ferrara N, Baker KP, Gurney AL, Paoni NF, Pitti RM, Ashkenazi AJ, Godowski PJ,

WPI; 2001-090793/10

P-PSDB; AAB53082

#

New isolated nucleic acid for producing a PRO polypeptide, analyzing angiogenic disorders, such as atherosclerosis, wounds or cancer genetic disorders and treating cardiovascular, endothelial

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121 gggccatgatttccctcccggggcccctggtgaccaacttgctgcggttttgtccctgg

Claim 58; Fig 37; 293pp; English

designated PRO proteins (AAB53064-B53097), and to nucleic acids encoding PRO proteins. The invention also relates to vectors and host cells mutations in a PRO gene, or the expression level of a PRO gene within a particular tissue; treating a cardiovascular, endothelial or angiogenic PRO agonist or antagonist; a retroviral gene therapy vector comprising angiogenic disorder, or a susceptibility to such a disorder by detecting disorder via the administration of a PRO protein, PRO nucleic acid, or The invention relates to novel human angiogenesis-associated proteins protein, PRO antibodies specific for a PRO protein, fusion proteins expression or activity; diagnosing a cardiovascular, endothelial or compounds which inhibit the expression of a PRO gene. The invention comprising a PRO nucleic acid, the recombinant production of a PRO comprising a PRO protein, agonists or antagonists of a PRO protein, additionally encompasses methods of identifying modulators of PRO

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endometriosis, ulcers, wounds, cancer, Alzheimer's disease, Huntington's screen libraries to isolate cDNAs with sequence identity to PRO agonists and PRO antagonists may be used as therapeutic agents to treat PRO nucleic acid; and methods of inhibiting or stimulating endothelial diabetic retinopathy, rheumatoid arthritis, Crohn's disease, psoriasis, PRO nucleic acids, PRO proteins, antibodies against PRO proteins, PRO cell growth, cardiac hypertrophy or PRO-induced angiogenesis via the administration of a PRO protein, or an agonist or antagonist thereof disease, or stroke. PRO nucleic acids are additionally useful in the atherosclerosis, osteoporosis, myocardial infarction, hypertension, recombinant production of PRO proteins, as hybridisation probes to cardiovascular, endothelial or angiogenic disorders, such as

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to map genes encoding PRO proteins, to analyse genetic disorders, and in gene therapy. PRO nucleic acids can also be used to produce transgenic therapeutic agents. The present sequence represents a cDNA encoding animals useful for the development and screening of potential 88888

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protein of the invention.

Seguence 1813 BP; 368 A; 559 C; 484 G; 402 T; 0 other;

Gaps . 0 100.0%; Score 1813; DB 22; Length 1813; Indels ö 0; Mismatches Pred. No. 0; 100.001 Matches 1813; Conservative Best Local Similarity Query Match

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BP

AAF93785 standard; cDNA; 1821

AAF93785 ID AAFS

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AAF93785

(first 23-MAY-2001

EX E

PSEC0086 clone protein cDNA encoding a membrane or secretory Human

gene therapy; vaccine; protein; Human; secretory protein; membrane rheumatoid arthritis; diabetes; ss

Homo sapiens

EP1067182-A2

10-JAN-2001

2000EP-0114090 07-JUL-2000; 99JP-0194179 2000JP-0118775 2000JP-0183766 11-JAN-2000; 02-MAY-2000; 08-JUL-1999;

(HELI-) HELIX RES INST

ĸ Hayashi Ë Sugiyama × Kawai H Nishikawa Ļ Isogai Ĥ ota

WPI; 2001-093989/11

P-PSDB; AAB88358.

H. secretory proteins/membrane proteins, useful gene therapy or as candidate target molecules in drug development Nucleic acids encoding

83; 609pp + CD ROM; English Claim 1; SEQ ID

to isolate AAF93916 which encode human secretory or membrane proteins represented by AAF93917 - 'AAF94295 and AAF62232 - AAF62235 which are used AAB88317 - AAB88419. Included in the invention are primers This invention relates to nucleic acid sequences AAF93744 the

sequences, which can be used in vaccines. The polynucleotide sequences presence of similar nucleic acid sequences in samples. They may also be used to study the expression and function of secretory proteins/membrane protein/membrane protein expression. The nucleic acids and complementary as antigens in the production of antibodies against them and in assays (e.g. polymerase chain reactions (PCR)) to detect and quantitate the the production of antibodies directed against the proteins, and cDNA CDNA sequences of the invention. The invention also includes methods and polypeptides and their role in metabolism. The polypeptides may be can be used in gene therapy. The polynucleotide sequences and the proteins they encode may be used in the prevention, treatment sequences may also be used as DNA probes in diagnostic assays diagnosis of diseases associated with inappropriate secretory

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The antibodies and antagonists may also be used as therapeutic identify modulators (agonists and antagonists) of expression and activity.

a180 (ELISA). Examples of diseases which may be treated include rheumatoid enzyme linked imminosorbant assay may agents to down regulate expression and activity. The antibodies i be used as diagnostic agents for detecting the presence of the down regulate expression and activity. The antibodies polypeptides in samples (e.g. by arthritis and diabetes

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Sequence 1821 BP; 366 A; 561 C; 489 G; 405 T; 0 other;

Gaps ö Length 1821; Indels 22; ö Score 1809; DB Pred. No. 0; 0; Mismatches 99.8%; 100.0%; Conservative Best Local Similarity Matches 1809; Query Match

9 7 ggagccgccctgggtgtcagcgctcggctcccgcgcacgctccggccgtcgcgcagcct ggagocgcoctgggtgtcagcggctcggctcccgcgcacgctccggccgtcgcgcagcct Н 12

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- 180 191 gggccatgatttccctcccggggccctggtgaccaacttgctgcgggtttttgttcctgg gggccatgatttccctcccggggcccctggtgaccaacttgctgcggtttttgttcctgg 121 132 ઠે - 유
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- 420 431 361 aaaaggaggatcaggtgttgtcctacatcaatggggtcacaacaagcaaacctggagtat 372 aaaaggaggatcaggtgttgtcctacatcaatggggtcacaacaagcaaacctggagtat ઠે 셤
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1680 1740 1620 1800 1631 1691 1751 181 ÿ sequences, proteins encoded by them and antibodies against them Sakurada ctactcaccaagagtgaggggcagagacttccagtcactgagtctcccaggcccccttga tetgtaccccacccctatctaacaccaccttggctcccactccagctccctgtattgat tetgtaccccaccctatetaacaccaccttggctcccactccagetccctgtattgat ataacctgtcaggctggcttggttaggttttactggggcagagggatagggaatctcttat ataacctgtcaggctggcttggttaggttttactggggcagaggatagggaatctcttat treatment of vascular disease caused Kawabata A, io No: Human; shear stress-response protein; vascular disease, stress-response coding sequence SEQ H Ţ-, Sugano S; Obayashi M, Ota Nakamura Y, BP AAH02949 standard; DNA; 1827 ž 02-OCT-2000; 2000WO-JP06840 99JP-0280976 entry) KOGYO in diagnosis and Ĭ HAKKO Yoshisue (first tttgtatga 1809 tttgtatga 1820 WPI; 2001-266308/27 Sekine S, arteriosclerosis; arteriosclerosis H AMILON (/ILON) P-PSDB; AAB90818 WO200125427-A1 KYOW) KYOWA sapiens 01-OCT-1999; 15-JUN-2001 Human shear 12-APR-2001 Ä AAH02949 Kuga T, Nojima useful 9 Нопо 1632 1692 1752 1801 1572 1741 1561 1621 1681 1812 AAH02949 RESULT g 셤 셤 윱 ठ 셤 ઠે ઠે ਨੇ Š

Claim 1; Page 595-599; 678pp; Japanese

The present invention provides the protein and coding sequences of a number of human shear stress response proteins. These are useful in the diagnosis, treatment and screening of vascular diseases caused by arteriosclerosis, including heart failure, post-PTCA restenosis and hypertension.

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Sequence 1827 BP; 369 A; 559 C; 491 G; 408 T; 0 other;

552 132 240 312 360 372 420 432 480 492 540 900 612 180 192 252 300 gtctccagggtgtgccccatgtgggggcaaacgtgaccctgagctgccagtctccaagga 660 120 £," Gaps 9 72 gccacagcatcaaaaccttagaactcaatgtactggttcctccagctcctccatcctgcc gccacagcatcaaaaccttagaactcaatgtactggttcctccagctcctccatcctgcc ccttggtctactccatgccctcccggaacctgtccctgcgggctggagggtctccaggaga gggccatgatttccctccgggggcccctggtgaccaacttgctgcggtttttgttcctgg ggetgagtgeeetegegeeeeetegegggeeeagetgeaactgeaettgeeegeeaaee ggttgcaggcggtggagggagggaagtggtgcttccagcgtggtacaccttgcacgggg aggtgtcttcatcccagccatgggaggtgccctttgtgatgtggttcttcaaacagaaag cettggtetactecatgeceteceggaacetgteeetgeggetggagggtetecaggaga ggagccgccctgggtgtcagcggctcggctccgcgcacgctccggccgtcgcgcagcct gggccatgatttccctcccggggcccctggtgaccaacttgctgcggtttttgttcctgg ggctgagtgccttggggcccccttgggggcccagctgcaacttgcccgccaacc ggttgcaggcggtggagggagggaagtggtgcttccagcgtggtacaccttgcacgggg aggtgtcttcatcccagccatgggaggtgccctttgtgatgtggttcttcaaacagaaag aaaaggaggatcaggtgttgtcctacatcaatggggtcacaacaagcaaacctggagtat aaaaggaggatcaggtgttgtcctacatcaatggggtcacaacaagcaaacctggagtat cggcacctgcaggtccgtgcgtcccgcggctggcgcccctgactccgtcccggccaggga cggcacctgcaggtccgtgcgtcccgcggctggcgcccctgactccgtcccggccaggga ggagccgccctgggtgtcagcggctcggctcccgcgcacgctccggccgtcgcgcacct 1827 ö Length Indels 22; 4 8 Score 1806.6; 0; Mismatches Pred. No. 0; 99.6%; Matches 1809; Conservative Query Match Best Local Similarity 121 181 241 253 313 361 373 421 433 481 493 541 601 13 61 73 133 193 301 553 . 0 쉱 g 셤 셤 유 셤 셤 d 셤 · 유 ò à ò ò ଚ ਨੇ ଚ ò ઠે ઠે à

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2000WO-JP09359 28-DEC-2000; 12-JUL-2001

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INC (PROT-) PROTEGENE

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SAGAMI CHEM RES SAGA)

Kimura တ် Kato

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WPI; 2001-418355/44 P-PSDB; AAE06610 and the nucleic acids encoding cancer and treating e.g. Human proteins with hydrophobic domains them, useful for preventing diagnosing Alzheimer's and inflammation 셤

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Claim 4; Page 486-489; 563pp; English

clone HP10801. The polynucleotide and polypeptide of the invention The present sequence is human protein with hydrophobic domain encoding may be used in the prevention, diagnosis and treatment of diseases with inappropriate polypeptide expression. associated 8

DNA may be used to produce the polypeptide, by inserting the nucleic acids ö polypeptides may also be used as antigens in the production polynucleotides and its complementary sequences may also be used into a host cell and culturing the cell to express the protein. probes in diagnostic assays and also used in gene therapy. The # 333333

activity. The polypeptides and nucleic acids may be used as nutritional supplements, to modulate cytokine and cell proliferation activity, to and in assays to identify modulators of polypeptide expression and modulate immune stimulation or suppression (e.g. for the treatment microbial infections and autoimmune disorders such as 12 88888

treatment of Parkinson's disease, Huntington's disease and Alzheimer's disease), to modulate activin and inhibin activity (e.g. for controlling modulate haemostatic and thrombolytic activity, to modulate receptor rheumatoid arthritis and insulin-dependent diabetes), to modulate , to modulate chemotactic and chemokinetic activity, to haematopolesis, to modulate tissue growth activity (e.g. for the inhibit tumour ligand activity, to modulate inflammation and to fertility)

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0 other G; 406 T; C; 488 A; 560 BP; 362 Sequence 1816

Gaps 1816 ö Length Indels 22; ä 8 Score 1804.8; 0; Mismatches Pred. No. 0; 99.58; 99.66 Conservative Best Local Similarity Matches 1806;

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480 488 540 548 600 609 720 728 780 788 840 848 120 128 180 188 300 360 368 428 9 999 841 tggaagtgagcacagggcctggagctgcagtggttgctggagctgttgtgggtaccctgg 900 cggcacctgcaggtccgtgcgtcccgcggctggcgcccctgactccgtcccggccaggga gggccatgatttccctcccggggcccctggtgaccaacttgctgcggtttttgttcctgg ctggagtctatgtctgcaaggcccacaatgaggtgggcactgcccaatgtaatgtgacgc ggttgcaggcggtggagggaaggggaagtggtgcttccagcgtggtacaccttgcacgggg aggtgtcttcatcccagccatgggaggtgccctttgtgatgtggttcttcaaacagaaag aggtgtcttcatcccagccatgggaggtgccctttgtgatgtggttcttcaaacagaaag ccttggtctactccatgccctcccggaacctgtccctgcgcggctggagggtctccaggaga cettggtetactecatgeceteceggaacetgteectgeggetggagggtetecaggaga gccacagcatcaaaaccttagaactcaatgtactggttcctccagctcctccatcctgcc gtetecagggtgtececatgtgggggeaaacgtgacectgagetgeeagtetecaagga gtctccagggtgtgtgccccatgtgggggcaaacgtgaccctgagctgccagtctccaagga caccagcattagatgtcatccgtgggtctttaagcctcaccaacctttcgtcttccatgg ctggagtctatgtctgcaaggcccacaatgaggtgggcactgcccaatgtaatgtgacgc cggcacctgcaggtccgtgcgtcccgcgggctggcgccctgactccgtcccggccaggga gggccatgatttccctcccggggcccctggtgaccaacttgctgcgggttttgttcctgg ggctgagtgccctcgcgcccccctcgcggggcccagctgcaactgcacttgcccgccaacc ggctgagtgccctcgcgcccctcgcgggcccagctgcaactgcacttgccgccaacc ggttgcaggcggtggagggaagtggtgcttccagcgtggtacaccttgcacgggg aaaaggaggatcaggtgttgtcctacatcaatggggtcacaacaagcaaacctggagtat aaaaggaggatcaggtgttgtcctacatcaatggggtcacaacaagcaaacctggagtat gccacagcatcaaaaccttagaactcaatgtactggttcctccagctcctccatcctgcc caccagcattagatgtcatccgtgggtctttaagcctcaccaacctttcgtcttccatgg 129 241 301 309 369 421 429 481 489 609 661 729 189 61 121 361 541 601 721 781 789 181

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	Claim 46; Page 296; 357pp; English.	PS	
	them, useful for treating neurodegenerative disorders, autoimmune diseases and cancer -	r r x	ataacctgtcaggctggcttggttaggttttactggggcagaggatagggaatctcttat 1740
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	neurodegenerative disease; asthma; contraceptive; ss.	MX S	atccctggtggggtttcttcctctggcttgagccgcatgggtgctgtgcctgtga 1260
	<pre>blood disorder; haemophilia; autoimmune disease; diabetes; inflammation; infection; fungal; bacterial; viral; HIV; allergy; arthritis;</pre>	¥ ¥	ggccctgccctcaccaagactgcccacgacagatggggcccaccctcaaccaatat 1208
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invention may exhibit one or more activities selected from the partially secreted, i.e., transmembrane proteins. The proteins of the The invention relates to 40 human secreted proteins (AAY94981-Y95020) proteins of the invention include those that are thought to be only and cDNA sequences encoding them (AAA23423-A23462). The secreted 8888 110 110 110 110

activin/inhibin activity; chemotactic/chemokinetic activity; haemostatic ulcers, osteoporosis, osteoarthritis, periodontal diseases, Alzheimer's additionally be useful as contraceptives. Nucleic acid sequences of the regime. Diseases or conditions that may be treated using the proteins or rheumatoid arthritis; pulmonary inflammation; Guillain-Barre syndrome, asthma and anaemia. They may also be used for treating wounds, burns inhibition activity. The proteins may be administered to patients as insulin dependent diabetes mellitus; and allergic reactions such as vaccines, and the nucleotides may be used as part of a gene therapy lateral sclerosis (ALS). Proteins with activin/inhibin activity may diagnostic primers and probes. The present sequence represents cDNA disorders; haemophilia; cardiovascular diseases; cancer; bacterial, disease, Parkinson's disease, Huntington's disease and amyotrophic and thrombolytic activity; anti-inflammatory activity; and tumour nucleotides of the invention include autoimmune diseases; genetic fungal and viral infections, especially HIV; multiple sclerosis; invention may be used in chromosome mapping, and as a source of cytokine activity; cell proliferation; differentiation; immune modulation; haematopoiesis regulation; tissue growth activity; sucoding one of the 40 proteins of the invention

Sequence 1954 BP; 498 A; 561 C; 490 G; 405 T; 0 other;

Gaps .. H 99.4%; Score 1802; DB 21; Length 1954; 0; Indels 0; Mismatches Pred. No. 0; 99.98; Matches 1813; Conservative Best Local Similarity Query Match

72 ggagccgccctgggtgtcagcgggctcggctccgcgcacgctccggccgtcgcagcc ggagccgccctgggtgtcagc-ggctcggctccgcgcacgctccggccgtcgcgcagcc 13 ઠે 유

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Q Q	433	ccttggtctactccatgccctcccggaacctgtccctgcgggctggagggtctccagg	492
à	480	aaagactctggcccctacagctgctccgtgaatgtgcaagacaaacaa	539
셤	493	aagactctggcccctacagctgctccgtgaatgtgcaagacaaacaa	552
È	540	ggccacagcatcaaaaccttagaactcaatgtactggttcctccagctcctccatcctgc	599
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à	840	ctggaagtgagcacagggcctggagctgcagtggttgctggagctgttgtgggtaccctg	899
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à	900	9ttggactggggttgctggtcctcttgtaccaccgcggggcaaggccttg	959
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à	960	aggagccagccaatgatatcaaggaggatgccattgctccccggaccctgccctggcc	101
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È	1080	ctccggccaccccatggccttcccaggcctggtgcattgaccccacgcccagtctctcc	113
a a	1093	tecggccaccccatggccttccaggcctggtgcattgacccccacgcccagtctctc	115
à	1140	agecaggecetgecetcaceaagaetgeceacgacagåtggggeceaceteaaceaata	119
Ор	1153	gccaggccctgccctcaccaagactgcccacgacagatggggcccacctcaaccaat	121

are most highly expressed in, and include developing products 1 diagnosis or treatment of cancer, tumours, developmental abnor and foetal deficiencies, blood disorders, diseases of the immune AAY76124 to AAY76223 represent the secreted proteins encoded by t human genes. The genes and their corresponding secreted polypeptid useful for preventing, treating or ameliorating medical conditio uses are described for each of the 97 genes, based on which tissu e.g. by protein or gene therapy. Also pathological conditions Ca diagnosed by determining the amount of the new polypeptides in a autoimmune diseases, inflammation, allergies, alzheimer's and ' New isolated human genes and the secreted polypeptides they encode. AAZ65250 to AAZ65350 represent 97 isolated human secreted protein or by determining the presence of mutations in the new genes. useful for diagnosis and treatment of e.g. cancers, neurological disorders, schizophrenia, arthritis, asthma, psoria818, 4 Carter KC, Moore PA; disorders, immune diseases, inflammation or blood disorders Brewer LA, Rosen CA, Claim 1; Page 313-314; 475pp; English. digestive disorder; endocrine disorder; intectative Wei F, Ebner R; Florence K, Ni J, Shi Y, Young PE, (HUMA-) HUMAN GENOME SCI INC. 98US-0085927 Lafleur DW, Endress GA, 9805-0085925 98US-0085928. 98US-0085924. 98US-0085923. 98US-0085922. 98US-0085921 98US-0085920. 9802-0082906 98US-0085180. 98US-0085094 98US-0085105 98US-0085093 99WO-US09847 WPI; 2000-062296/05. P-PSDB; AAY76152. schizophrenia; artm-18-MAY-1998; Ruben SM, 18-MAY-1998; 18-MAY-1998; 18-MAY-1998; Olsen HS, 18-MAY-1998; 18-MAY-1998; 18-MAY-1998; 18-MAY-1998; 12-MAY-1998; 18-MAY-1998; 12-MAY-1998; 12-MAY-1998; 12-MAY-1998; 06-MAY-1999; WO9958660-A1 18-NOV-1999. Homo sapiens therapy; ds. ပ္ပ ೪ ပ္ပ ပ္ပ ပ္ပ ႘ ઇ ઇ ઇ ပ္ပ × × F. 돖 딦 X K 短 Ž Ы 겁 Ħ × g × 묪 R R R R 됐 됐 ă ŏ g X 1912 taaaactaacatgaatatgtgttgtttcatttgcaatttaaataagatacataat 1812 SO 1752 tataacctgtcaggcttgggttaggttttactggggcagaggatagggaatctcttta 1752 1680 tataacctgtcaggcttggttaggtttactggggcagaggatagggaatctctta 1739 ₹. 1620 atctgtaccccaccctatctaacaccaccttggctcccactccagctccctgtattga 1679 1633 atctgtacccccaccctatctaacacccttggctcccactccagctccctgtattga 1692 1573 gctactcaccaagagtgagtgagggcaggacttccagtcactgagtctcccaggcccccttg 1632 1860 gctactcaccaagagtgagcagagacttccagtcactgagtctcccaggccccttg aattgggaggagctccacccctgactcctcatgaagccagctgctgaatta 1559 1513 aattgggaggagctccacccctgactccttatgaagccagctgctgaatta 1572 1440 aaccatctcagtaagacctaagtgtccaggagacagaaggagaagtggatctgg 1499 1512 aaccatctcagtaagacctaagtgtccaggagacagaaggaggaagtggatctgg 1512 gggaaagagtcacactccgaccctagtactctgcccccacctctcttactgtgggaa 1439 1393 gggaaagagtcacactcctgacccttagtactctgccccacctctttactgtgggaa 1452 1320 aaaggatttgggggtctcttcctataagggtcacctctagcacagaggcctgagtcat 1379 1333 aaaggatttggggtctcttcctataagggtcacctctagcacagaggcctgagtcat 1392 atggtgcctgccagagtcaagctggtatgatgatgaccccaccattattggct 1319 1273 atggtgcctgcccagagtcaagctggctctctggtatgatgatcccaccactcattggct 1332 Lara tececatecetegteggtegggttettettettettegagetgetgggtgetgtgtg AAZ65278 standard; DNA; 1932 BP. Human secreted protein gene 29. (first entry) grtrgtatgaaaa 1826 1800 gtttgtatgaaaaa 1813 HITHITHI 23-MAR-2000 AAZ65278; RESULT 13 1813 AAZ65278 Б × 셤 ઠે 셤 ð ይ ઠ 음 ઠ გ ઇ გ ઠે a

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Gapa 7 Length Indels 7 四四 Score 1783.8; Pred. No. 0; 3; Mismatches 98.4%; 99.7%; Conservative Local Similarity Query Match Best Local Simi Matches 1804;

67 63 gccgcctgggtgtcagcggctcccgcgcacgctccggccgtcgcgcagcctcgg gccgccctgggtgtcagcggctcggctcccgcgcacgctccggccgtcgcgca-sctcgg σ

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ğ	1567 ctcaccaagagtgaggggaggacttccagtcactgagtctcccaggcccccttgatct 1626	ម្ង មួ	and polypeptides encoded by the genes. Expression vectors and most ceries for producing the polypeptides are disclosed and methods for screening
8		888	purifying ligands which specifically bind to the polypeptides are also arrowided. The polymucleotides are useful for treating diseases
8	מרמינט זמם	စ္က	
ઠે	1684 acctgtcaggctggcttggttaggtttactggggcagagggatagggaatctcttattaa 1743. 	ខូខូ	with the altered expression of a gene that is coexpressed with one or more known atherosclerosis-associated genes in a subject. They are
Op	1687 acctgtcaggcttggcttggttaggttttactggggcagaggatagggaatctcttattaa 1746	ខ	useful in diagnosis, prognosis, treatment, prevention, selection and evaluation of therapies for atherosclerosis including stroke, myocardial
ò	1744 aactaacatgaaatatgtttgtttttcatttgcaaatttaaataaa	8 8	infarction, transient cerebral ischemia, mesenteric ischemia, coronary
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18	Atherosclerosis-associated gene seq ID No. 12.	ò	61 cggcacctgcaggtccgt-gcgtcccgcgggct-ggcgcccctgactccgtcccggccagg 118
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₹ §	ischemia, coronary artery disease, angina pectoris, hypertension, peripheral vascular disease, renal artery stenosis; antiatherosclerotic;	ò	119 gagggcatgatttccttccggggccctggtgaccaacttgctgcgggtttttgttcct 178
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1	(INCY-) INCYTE GENOMICS INC.	Q	303 ggaggtgtcttcatccagccatgggaggtgcctttgtgatgtggttcttcaaacagaa 362
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ž K	WPI; 2001-138330/14.	8	363 agaaaaggaggagtattgtcctacatggggtcacaacaagaaactgggagt 422
ğ	Composition comprising atherosclerosis-associated polynucleotide useful	. ò	419 atccttggtctactccatgccctcccggaacctgtccctgcgggctggagggtctccagga 478
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Z Z	Claim 1; Page 43; 58pp; English.	ģ	479 gaaagactetggcccctacagctgctccgtgaatgtgcaagacaaacaa
ă	The invention provides novel atherosclerosis-associated polynucleotides	g	483 gaaagactetggeeeetacagetgeteetgetgaatgtgeaagacaaagacaaageaaatetag 542

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5: /cgn2_6/ptodata/2/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/2/ina/PCTUS_COMB.seq:* Issued Patents NA:* Database

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result		Query				
Ñ.	Score	Match	Match Length DB ID	B B	ID Description	
. r	1376	75.9	1387		1387 2 US-08-979-424-2	Sequence 2, Appli
71	51.4	2.8	7218	-	US-08-232-463-14	Sequence 14, Appl
e	45.4	2.5	1584	4	US-08-928-383B-1	Sequence 1, Appli
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ALIGNMENTS

RESULT

VIRAL RECEPTOR PROTEIN ADDRESSEE: Incyte Pharmaceuticals, Inc. ; Sequence 2, Application US/08979424 Corley, Neil C. COMPUTER: IBM Compatible STREET: 3174 Porter Dr. OPERATING SYSTEM: DOS MEDIUM TYPE: Diskette NUMBER OF SEQUENCES: 3 CORRESPONDENCE ADDRESS: APPLICANT: Lal, Preeti COMPUTER READABLE FORM: TITLE OF INVENTION: CITY: Palo Alto GENERAL INFORMATION: COUNTRY: USA , Patent No. 5942606 ZIP: 94304 ర APPLICANT: US-08-979-424-2 STATE:

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	; STRANDEDNESS: single ; TOPOLOGY: linear
	TYPE: nucleic acid
	CHARACTERISTICS:
	; TELEX: 899149 ; INFORMATION FOR SEO ID NO: 14:
	; TELEPHONE: (703)836-9300 ; TELEFAX: (703)683-4109
	ION
	; REGISTRATION NUMBER: 29,768 ; REFERENCE/DOCKET NUMBER: 30472/114 IMMU
	Stephen A.
	; FILING DATE: 26-AUG-1991; ATTORNEY/AGENT INPORMATION:
me: 11393	Ħ
Search completed: August 1	; APPLICATION NUMBER: US/07/935,313
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Db 1413 YYYYYYYYYYYYYYY	; APPLICATION NUMBER: US/08/232,463
Uy 1341 tectataagggteace	; SOFTWARE: Patentin Release #1.0, Version #1.25
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Oy 1161 agactgcccacgacage	; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS MIMBER OF SEQUENCES: 52
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VY IIOI CCCABBCCTBBCBCCC	; APPLICANT: DORNER, F. : APPLICANT: SCHEIFLINGER, F.
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7	Db 1260 TGGTGCTGCCCAGAGTCAGGTGGCTCTCTGGTATGATGACCCCACCACATTGGCTA 1319
; IMMEDIATE SOURCE:	Oy 1261 tggtgcctgccagagtcaagctggctctctggtatgatgaccccaccaccactcattggcta 1320

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1281 gotggotototoggtatgatgacocoaccacicattggotaaaggatttgggggtototot 1340
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                        Indels
                      Conservative 219; Mismatches 150;
Query Match 2.8%; Score 51.4; DB 1;
Best Local Similarity 2.6%; Pred. No. 0.00045;
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Gencore version 4.5 Copyright (c) 1993 - 2000 Compugen Ltd.			OM nucleic - nucleic search, using sw model			(without alignments)	15393.119 Million cell updates/sec				. UVIDALE CONTRACTOR C	Scoring table. IDENTITY MIC			Searched: 13736207 segs, 6748477542 residues	metal minutes of hits cotingwine abone nermeters.		seq length:	Maximum DB seq length: 200000000	Post-processing: Minimum Match 0%	Maximum Match 100%	Listing first 45 summaries		Ľ	L: em_estpa:*	3: em_estin:*	E .		E	/: em_estro:* 8: em_btc:*		1	В.	12: gb_ges:*		em gas	16: em_gss_vrt:*	Pred. No. is the number of results predicted by chance to have a	ater than or emial to the score of the result being or	derived by analysis of the total score distribution.		SUMMARIES	Result Query	No. Score Match Length DB ID Description		55.5 1017 9 ALS47358 ALS47358 ALS4

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	mRNA sequence.			•	È	954 gccctggaggag	9ag
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Rockville, Marylan	Rockville, Maryland 20850, USA Fax : (1) 301 610 8371	301 610 8371			g	403 AGTCATGGGAAA	Ž
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		q	120 CCTCCCGGGGCCCTCGTGACCAACTTGCTGCGGTTTTTGTTCCTGGGGCTGAGTGCCC 179
RESULT 2			
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16-FEB-2001	Abs4/358 LUI Dp mwn illed Est	g	180 TCGCGCCCCCCCCCGGGGCCCAGCTGCAACTGCACTTGCCGGCAACCGGTTGCAGGCGG 239
	ALS47358 LTI NFL006 PL2 Homo sapiens cDNA clone CS0DI007XN05 5	į	
prin	prime, mRNA sequence.	ģ	253 tggagggagggaagtggtgcttccagcgtggtacaccttgcacggggaggtgtcttcat 312
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	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
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/note="Vector: 1	/cissuc_rypes.pracemea. /notes#Vector: pCMVSPORT 6: Site 1: NotI: 1st strand cDNA	3	
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Best Local Similarity	99.8%; Pred. No. 2e-227;	셤	780 TCTGCAAGGCCCACAATGAGGTGGGCACTGCCCAATGTAATGTGACGCTGGGAAGTGAGCA 839
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973 atga	tatcaaggaggatgccattgctccccggaccctggccctggcccaagagctcaga 1030	QQ	60 AGGTCCGTGGCTGCCGCCCCTGACTCCGTCCCGGCCAGGAGGCCATGAT 119
960 ATGA		& &	131 ttccttccggggcccttggtgaccaacttgctgcggtttttgttcctgggggtgaggg
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3572 ·	AL513572 1045 bp mRNA linear EST	è i	1 GGCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
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	.1 GI:12777066	g G	240 gergaaggaaggaaagrgerrecagegraaracerrecaggaaggrerre 299
OKUS ES	human.	ò	311 atcccagccatgggaggtgccctttgtgatgtggttcttcaaacagaaaggaagg
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en Ures	<pre>Email: segref@genoscope.cns.fr, Web : www.genoscope.cns.fr. Location/Qualifiers</pre>	ð	491 ccctacagctgctccgtgaatgtgcaagacaaacaaggcaaatctaggggccacagcat 550
source anisme"Hom	source 11045 anism="Homo sapiens"	셤	480 CCCCTACAGCTGCTCCGTGAATTTGCAAAAAAAAAAGGAAAATWTAGGGGCCACAGCAT 539
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ville, Max l : flianc	ville, Maryland 20850, USA Fax : (1) 301 610 8371 1 : fliand@lifetech.com URL :	셤	660 IGTCCAATACCAGTGGGATCGGCAGCTTCCATCCTTCCAGACTTTCTTT
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Query Match Best Local Similarity

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was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-stranded cDNA was digested with Not I and

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clone lib="LTI NFL006_PL2"

clone="XCL0BA001ZD03"

tissue_type="placenta"

'organism="Homo sapiens"

'db xref="taxon:9606"

vector. Library was normalized. Library was constructed by cloned into the Not I and Eco RV sites of the pCMVSPORT 6 Life Technologies. Contact : Feng Liang Life Technologies,

Rockville, Maryland 20850, USA Fax : (1) 301 610 8371

Email : fliang@lifetech.com URL : http://fulllength.invitrogen.com"

a division of Invitrogen 9800 Medical Center Drive

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	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia: Eutharia: Drimatas: Catarrhini: Hominidas: Homo.	a	688	ATGG
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Life Technologies.	ologies. Contact: Feng Liang Life Technologies,	ò	1453	agac
a division Rockville,	a divibion of invicrogen 9800 Medical Center Drive Rockville, Maryland 20850, USA Fax : (1) 301 610 8371	q	328	AGAC
Email : fl http://ful	<pre>Bmail : fliang@lifetech.com URL : http://fulllength.invitrogen.com"</pre>	8	1513	ָ נְיָ
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Query Match 52.3%; Score 947.6; DB 9; Length 986; Best Local Similarity 98.1%; Pred. No. 1.1e-213; Matches 969; Conservative 9; Mismatches 8; Indels 2;

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791 tgtctgcaaggcccacaatgaggtgggcactgcccaåtgtaatgtgacgctggaagtgag 8	δ.	Ouery Match 52.3%; Score 947.6; DB 9; Length 1013;	Ouery
	ପ୍	UNT 183 a 309 c 304 g 216 t 1 others	BASE COUNT ORIGIN
731 agatgtcatccgtgggtctttaagcctcaccaacctttcgtcttccatggctggagtcta	8 8	Email : fliang@lifetech.com URL : bttp://fulllength.invitrogen.com"	Email: http://f
	G E	Addition of Invitrogen 9800 Medical Center Drive	a divisi
671 tgtccaataccagtgggatcggcagcttccatccttccagactttcttt	ò	vector. Library was normalized. Library was constructed by Life Technologies. Contact : Peng Liang Life Technologies,	vector. Life Tec
599	qq	cloned into the Not I and Eco RV sites of the pCMVSPORT 6	cloned i
611 tgtgccccatgtgggggcaaacgtgaccctgagctgccagtctccaaggagtaagccgc 6	ò	was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-stranded cDNA was digested with Not I and	was prin
		T 6; Site_1: NotI; 1st strand	/note="V
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479 CCCCTACAGCTGCTCCGTGAATGTGCAAGACAAACAAGGCAAATCTAGGGGCACACAT 5.	a a .	/organism="Komo sapiens" /db xraf="taxon.9606"	/organie
	ż	KES LOCALION/QUALILLEIB BOURCE 11013	FEATURES
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419 CICCARGCCTCCCGGAACCTGTCCCTGCGGCTGGAGGGTCTCCAGGAGAAAACACTCTGG 4	qq	Genoscope - Centre National de Sequencage BP 191 91006 EVRY cedex - France	
431 ctccatgccctcccggaacctgtccctgcggatggagggtctccaggagaaagactctgg 4	ò	Z.	COMMENT
359 TCAGGTGTTGTCCTACATCAATGGGGTCACAAGAAGCAAACCTGGAGTATCCTTGGTCTA 4	qa		TITLE
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		Homo sapiens	ORGANISM
31] atoccadocatgggaagtgcootttgtgatgtggttottcaaacagaaagaaagaaga	8	S EST himan	KEYWORDS
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179 CCTCGCGCCCCCTCGCGGGCCCAGCTGCACTGCCCGCCGCCACCGGTTGCAGGC 2.	ፈር • • •	2001 ION ALSS0211 LTI NFL006 PL2 Homo sapiens cDNA clone CSODI039YD07	16-PEB-2001 DEFINITION
	est est	1 ALSSO211 1013 bp mRNA linear	ALSS0211 LOCUS
	1 (·	RESULT
119 TICCTTCCCGGGGCCCCTGGTGACCAACTTGCTGCGGTTTTTGTTGCTGGGGCTGAGGTGC 17	qu		
131 ttcctcccggggcccctggtgaccaacttgctgcgggtttttgttcctggggctgagtgc 19	· &		Db 2
59 AGGTCCGTGCGTCCCGCGCGCTGGCCCCTGACTCCGTCCCGGCCAGGGAGGG	đ	53 gaaatatgtgttttcatttgcaaat 1780	Qy 1753
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cctcggcacctg 	δ 6	CCTGTCAG 8	Db 14
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Oy 911 gttgctggctgggctggtcctcttgtaccacgccgggggcaaggccctggaaggagccagc 970	Db 898 GTTGCTGGCTGGGCTCTTCTTGTACCACCGGGGGCAAGG-CCTGGAGGAGCCAG- 955 Qy 971 caatgatatcaaggaggatgccattgctcccgggacctggccca 1020	:	RESULT 6 ALS52901 LOCUS ALS52901 1003 bp mRNA linear EST 16-PEB-2001	ON ALSS2 prime N ALSS2 ALSS2		Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo. REFERENCE 1 (bases 1 to 1003) AUTHORS Li,W.B., Gruber,C., Jessee,J. and Polayes,D. TITLE Full-length cDNA libraries and normalization	COMMENT Contact: Genoscope Genoscope - Centre National de Sequencage BP 191 91006 EVRY cedex - France	FEATURES Location/Qualifiers source /organisme="Homo sapiens"	/db_xrei="taxon:9606" /clone="CSODIO71YE19" /clone_lib="LTI_NFLO06_PL2" /tissue_type="placenta"	/note="Vector: pCMVSPORT 6; Site_1: NotI; lst strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-stranded cDNA was digested with Not I and cloned into the Not I and Eco RV sites of the pCMVSPORT 6	vector. Library was normalized. Library was constructed by Life Technologies. Contact : Feng Liang Life Technologies, a division of Invitrogen 9800 Medical Center Drive Rockville, Maryland 20850, USA Fax : (1) 301 610 8371 Email : filang@lifetech.com URL :	//fulllength.invitrogen.com count 183 a 304 c	Query Match S2.0%; Score 942.6; DB 9; Length 1003; Best Local Similarity 99.6%; Pred. No. 1.7e-212; Matches 975; Conservative 1; Mismatches 0; Indels 3; Gaps

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1518 cccaccctgactcctccttatgaagccagctgctgaaattagctactcaccaagagtga 1	λο	<pre>lang@lifetech.com URL : llength.invitrogen.com"</pre>
96 TAAGTGTCCAGGAGAACAAAAAAAAAAGAAGAAGAAGAAGAAGAAGA	ኛ <u>.</u>	a division of Invitrogen 9800 Medical Center Drive Rockville, Maryland 20850, USA Fax : (1) 301 610 8371
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356 IGACCCTTAGTACTCTGCCCCCACCTCTTTACTGTGGGAAAACCATCTCAGTAAGACC 2	QO	enriched, double-stranded cDNA was digested with Not I and cloned into the Not I and Eco RV sites of the DCMVSPORT 6
1398 tgaccettagtactetgececeacetetttactgtgggaaaaceateteagtaagae 1	ŏ	/note="Vector: pCMVSPORT 6; Site_1: NotI; 1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end
416 CCITCCTATAGGGGTCACCTCTAGCACAGAGGCCTGAGTCATGGGAAAGAGTCACACTCC 3	ପ୍	/clone_lib="LTI_NFL006_PL2" /tissue_type="placenta"
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1278 caagctggctctctggtatgatgacccaccactcattggctaaaggatttggggtctct 1	λο 	
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596 CCAAGACTGCCCACGACAGATGGGGCCCACCCTCAACCAATATCCCCCCATCCTGGTGGG 5	ପ୍ଷ	TITLE Full-length cDNA libraries and normalization
1158 ccaagactgcccacgacagatggggcccaccctcaaccaatatcccccatccctggg 1;	<i>δ</i> ο	
656 cereceaggeergeargeatroaceceaggeererereaggeaggeergeerea	stomi; Db	
1098 cctcccaggcctggtgcattgaccccacgcccagtctctccagccag	ò	Š
716 recaagaardegaceerricerereaceredeaceacerecegecaceeraceer 65	đ	
1038 tccaagaatgggaccetttcctctgtcacctccgcacgagccctccggcaccacccatggc 10	700 s 607	DEFINITION ALS71713 LTI_NFLU06_PLZ Homo Sapiens CLNA Clone CSULLUSIXI prime, mRNA sequence.
776 ATCAAGGAGGATGCCATTGCTCCCCGGACCCTGCCCTGGCCCAAGAGCTCAGACACAATC 71	xi	ALS71713 955 DP MKNA Linea
978 atcaaggaggatgccattgctcccgggaccttgccctagcccaagagctcagacacaatc 10	λδ	r 7 713/c
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858 cctggagctgcagtggttgctggagctgttgtgggtaccctggttggactgggttgctg 91	A 957 QY	- ල්
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798 aaggeccacaatgaggtgactgeccaatgtaatgtgacgetggaagtgaage 85	 T 899 QY	Db 840 CAGGGCCTGGAGCTGCTTGCTGGAGCTGTTGTGGGTACCCTGGTTGGACTTGGGGT
	t 912 1;	Ος , 853 cagggcctggagctgcagtggttgctggagctgttgtggggtaccctggttggactggtggt

 1590 1170 1350 1410 1470 1530 cgacagatggggcccaccctcaaccaatatcccccatcctggtggggtttcttcctctg 1230 1650 1050 1110 255 195 375 315 495 435 194 CCAGTCACTGAGTCTCCCAGGCCCCCTTGATCTGTACCCCCACCCCCTATCTAACACCACCCC 135 552 914 930 855 990 795 735 675 615 gtcacctctagcacagaggcctgagtcatgggaaagagtcacactcctgacccttagtac TCTGCCCCCACCTCTTTACTGTGGGAAAACCATCTCAGTAAGACCTAAGTGTCCAGGA ccagtcactgagtctcccaggccccttgatctgtaccccaccctatctaacaccacc 614 CGACAGGTCGACCCTCAACCAATATCCCCCATCCTGGTGGGGTTCTTCCTCTG tetgececeaectetettaetgtgggaaaaceateteagtaagaeetaagtgteeagga cctccttatgaagccagctgctgaaattagctactcaccaagagtgaggggaggactt CCTCCTTATGAAGCCAGCTGCTGAAATTAGCTACTCACCAAGAGTGAGGGGCAGAGACTT 970 AGGT-GCCACTCCCCAATGTAATGTGACGCT-GAARTGAGCACA-GGCCTGGAGCTGCAG tcttgtaccaccgccggggcaaggcctggaggaggagcagccaatgatatcaaggaggatg CCATTGCTCCCCGGACCCTGCCCTGGCCCAGAGCTCAGACACATCTCCCAAGAATGGGA 734 CCCTTTCCTCTGTCACCTCCGCACGAGCCCTCCGGCCACGCCCATGGCCCTCCCAGGCCTG gtgcattgacccccacgcccagtctctccagccaggccctgccctcaccaagactgccca GCTTGAGCCGCATGGGTGCTGTGCTGTGGTGCCTGCCCAGAGTCAAGCTGGCTCTC ccattgetecceggacectgecetggeceaagageteagacacaatetecaagaatggga 554 494 1351 434 374 314 254 1591 1111 1171 1411 1471 913 991 794 1051 1231 1531 871 931 g 셤 셤 ò 셤 ઠે 셤 ठ 셤 ઠે 유 à ä 셤 윱 ઠે 8 셤 à 셤 ò 셤 င် a 8 გ. ઠે 7 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; ALS73957 LTI_NFL006_PL2 Homo sapiens cDNA clone CS0DI053YD20 3 Gaps ì

: www.genoscope.cns.fr

Mammalia; Butheria, Primates; Catarrhini; Hominidae; Homo

-71.

GI:12933695

AL573957.1

AL573957

ACCESSION

JERSION

prime, mRNA sequence.

Li, W.B., Gruber, C., Jessee, J. and Polayes, D. Pull-length cDNA libraries and normalization

Unpublished (2001) Contact: Genoscope

JOURNAL

(bases 1 to 1026)

REFERENCE AUTHORS TITLE

Homo sapiens

ORGANISM

human. EST.

KEYWORDS SOURCE

Genoscope - Centre National de Sequencage

Email: segref@genoscope.cns.fr, Web

Location/Qualifiers

FEATURES

BP 191 91006 EVRY cedex - France

1753

CTTGGTTAGGTTTTACTGGGGCAGAGGATAGGGAATCTCTTATTAAAACTAACATG

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RESULT

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DB 9; 12;

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51.7**%**; 97.7**%**;

4; Mismatches

Matches 1010; Conservative

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Best Local Similarity

Query Match

others

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enriched, double-stranded cDNA was digested with Not I and vector. Library was normalized. Library was constructed by

/note="Vector: pCMVSPORT 6; Site_1: NotI; 1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end

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cloned into the Not I and Eco RV sites of the pCMVSPORT 6

Life Technologies. Contact : Feng Liang Life Technologies,

Rockville, Maryland 20850, USA Fax : (1) 301 610 8371 a division of Invitrogen 9800 Medical Center Drive

http://fulllength.invitrogen.com"

BASE COUNT

4; Qy 12 gggtgtcagcggctccggcacgctccggccgtcgcgagcagctcggcacctggaacctgca 71	-crceecacere	Oy 72 ggtccgtgcgtccggcggctggcgccctgactccgtcccggccagggaggg	60 GGTCCGTGCGTCCCGCGGCTGGCGCCCTGACTCCGTCCCGGCCAGGGAGGG	Ay 132 teceteceggggecectggtgaceaacttgetgeggttttgttectggggstgagtgec 1	Qy 192 ctcgcgccccctcgcgggcccagctgcaactgcacttgcccgccaaccggttgcaggcg 2	18	Qy 252 gtggagggaagtggtgcttccagcgtggtacaccttgcacgggaggtgtcttca 311	312	DD 300 TCCCAGCCATGGGAGGTGCCCTTTGTGATGTGGTTCTTCAAACAAA	Oy 372 caggtgttgtcctacatcaatggggtcacaacaagcaaacctggagtatccttggtctac 4	DD 360 CAGGTGTTGTCCTACATGGGGTCACAACAAGCAAACCTGGAGTATCCTTGGTCTAC	Qy 432 tecatgeceteceggaacetgteeetggaggetggagggtetecaggaagaactetgge	Db 420 TCCATGCCTCCCGGAACCTGTCCCTGCGGCTGGAGGGTCTCCAGGAGAAAGACTCTGGC 4	Qy 492 ccctacagctgctccgtgaatgtgcaagacaaacaaggcaaatctaggggccacagcatc 5	Db 480 CCCTACAGCTGCTCCGTGAATGTGCAAGACAAACAAGGAAATCTAGGGGGCCACAGCATC	Qy 552 aaaacettagaactcaatgtactggttcctccagctcctccatcctgccgtctccagggt 611	Db 540 AAAACTTAGAACTCAATGTACTGGTTCCTCCAGCTCCTCCATCCTGCCGTCTCCAGGGT	Ov 612 ofocceatofocoocaaacotoaccetoaoctoccaotetecaaqoaotaaqeeqet	. 09	672 9	999	Qy 732 gatgtcatccgtgggtctttaagcctcaccaacctttcgtcttccatggctggagtctat	Db 720 GAIGICAICCGIGGGICTITAAGCCICACCTTICGICTICCAIGGCIGAAGICTAI	Oy 792 gtctgcaaggcccacaatgaggtgggcactgcccaafgtaatgtgacgctggaagtgagcobbbccobbbcccbargagcactgcccaafgtaatgtgagccbargaggcgcbcrgcccaafgccccaafgracgcrggaagtgagcccaafgcccaafgccccaafgcacgcrggaagtgagcccaafgcaaggcccaafgcaaggcccaafgcaaggcccaafgcaaggcccaafgaaggcccaafgaaggcccaafgaaggcccaafgaaggcccaafgaaggcccaafgaaggcccaafgaaggcccaafgaaggccccaafaaggccccaafgaagaaggccccaafgaaggccccaafgaagaagaagaagaagaagaagaagaagaagaagaag
Oy , 1651 ttggctcccactccagctccctgtattgatataacctgtcaggcttggttaggttt 1710	Oy 1711 tactggggcagaggatagggaatctcttattaaaactaacatgaaatatgtgttgtttc 1770	Db 74 TACTGGGGCAGAGGATAGGGAATCTCTTATTAAAACTWACATGAAATATGTGTTTTTC 15	Qy 1771 atttgcaaatttaa 1784	Db 14 ATTTGCAAATTTAA 1	RESULT 9 AL548482	100	DEFINITION ALS48482 LTI_NFL006_PL2 Homo sapiens cDNA clone CS0DI014YD08 5 ACCESSION ALS48482 VRRSION ALS48482 1 GI:12883529	S EST.	n n	Mammalia 1 (base		COMMENT Contact: Genoscope	Genoscope - Centre National de Sequencage BP 191 91006 EVRY cedex - France	Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr. PEATURES Location/Qualifiers	source 1.969 /organism="Homo sapiens"	/db_xref="taxon:9606" /clone="CSODI014YD08"	/clone_lib="LTI_NFL006_PL2" ./tissue_type="placenta"	/notes"Vector: pCMVSPORT 6; Site_1: Not1; 1st strand cDNA	enriched, double-stranded cDNR was digested with Not I and cloned into the Not I and Eco RV sites of the PCMVSPORT 6	vector. Library was normalized. Library was constructed by Life Technologies. Contact : Peng Liang Life Technologies.	a division of Invitrogen 9800 Medical Center Drive Rockville, Maryland 20850, USA Fax : (1) 301 610 8371	<pre>Email : fliang@lifetech.com URL : http://fulllength.invitrogen.com" page Comm 177</pre>	J 704	Query Match 50.3%; Score 911.6; DB 9; Length 969; Best Local Similarity 98.6%; Pred. No. 3.7e-205;

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Db 899 TIGCIGGCTGGCCCCTCTTGIA-CACCGCGGGCAAGGCTGGAGGAGCAACC 955	Oy 70 caggtccgtgcgtcccgcggctggcgcccctgactccgtcccggccagggaggg
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MISM	
<pre>Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;</pre>	Db 300 CATCCCAGCCATGGGAGGTGCCCTTTGTGATGTGGTTCTTCAACAGAAAGAA
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TITLE Full-length cDNA libraries and normalization JOURNAL Unpublished (2001)	190 AICAGGIGITGICACATCAATGGGGGACAAGGAAGGAAGGAAGGAAGGAAGG
	Oy 430 actocatgcoctcocggaacotgtocotgcggotggagggtotocaggagaaagactotg 489
Genoscope - Centre National de Sequencage BP 191 91006 EVRY cedex - France	Db 420 ACTCCATGCCTCCCGGAACCTGTCCCTGCGGCTGGAGGGTCTCCAGGAGAAAGACTCTG 479
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was primed with a NotI-oligo (dT) primer. Five prime end	Oy 610 gtgtgccccatgtgggggcaaacgtgaccctgagctgccagtctccaaggagtaagccg 669
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vector. Library was normalized. Library was constructed by	•
Life Technologies. Contact : Feng Liang Life Technologies,	Oy 670 ctgtccaataccagtgggatcggcagcttccatccttccagacttcttgcaccagcat 729
a division of invitogen yeou medical center Diive Rockville, Marvland 20850, USA Fax : (1) 301 610 8371	DD 660 CIGICCAATACCAGIGGGAICGGCAGCTICCATCCTICCAACCTITGCACCAGCAI 719
Email: fliang@lifetech.com URL:	
llength.invitrogen.com"	Oy 730 tagatgtcatccgtgggtctttaagcctcaccaacctttcgtcttccatggctggagtct 789
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	Oy 790 atgtctgcaaggcccacaatgaggtgggcactgcccaatgtgacgctggaagtgga 849

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Gaps

50.2%; Score 911; DB 9; Length 1109 98.9%; Pred. No. 5.4e-205;

1; Mismatches

Conservative

Query Match Best Local Similarity Matches 937; Conserv

	956 DD 939 TGTAATGTGACGCTGGAAGTGAGGCCCTGGAGCTGCAGTGGTKGCTGGAGCTGTTTTTTTTTT	AGGCC 944	Oy 948 ggcaaggaggaggaggcaatgatatcaaggaggaggaggacc 1	YNOS 3 QY 1008 Db 759	Qy 1068 tecgeaegageeteceggeeaececatggeeteceaggeetggtgeattgaececeagg. 1	.; Hominidae; Homo. Qy 1128 cccagicticcagccaggccitgccitcaccaagaccaggacagatggggccac 1 18.D.		w.genoscope.cns.ir. Qy 1248 gctgtgcctgtgatggtgcctgcccagagtcaagctgctctctggtatgatgacccac 1	Oy 1308 cactcattggctaaaggatttggggtctctccttcctataagggtcacctctagcacaga 1	cDNA cDNA end	Qy 1427 tttactgtg Db 340 TTTACTGTG	Qy 1487 gaagtggatctggaattgggag-gagcctccacccacccttgactccttcttatgaagcc 1	Oy 1546 agctgctgaaattagctaccaagagtgaggg Length 998; Db 220 AGCTGCTGAAATTAGCTACTCACCAAGAGTGAGGG	בות מי	
GCACAGGGCCTGGAGCTGCAGTGGTTGCTGGAGCTGTTGTGGGTACCCTGGTTGGACTG	9gttgctggctggctcgtcttgtaccaccgccggggcaaggcc	900 Gernecrescresrcrerreraceccessecaasec	ALS72321 \$ 998 bp	2321 LTI_NFL006_PL2 Homo sap e, mRNA sequence. 2321 2321.1 GI:12930475	human. Homo sapiens Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Butele	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo 1 (bases 1 to 998) Li,W.B., Gruber,C., Jessee,J. and Polayes,D. Pull-length cDNA libraries and normalization	Unpublished (2001) Contact: Genoscope Genoscope - Centre National de Sequencage BP 191 91006 EVRY cedex - France	Email: segref@genoscope.cns.fr, Web : www.genoscope.cns	<pre>db_xref="taxon:9606" /clone="CS0DI007XN05" /clone_lib="LTI_NFL006_PL2" /tlssue_type="placenta"</pre>	/note="Vector: pcMVSPORT 6; Site_1: NotI; 1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-stranded cDNA was digested with Not I an cloned into the Not I and Eco RV sites of the pcMVSPORT 6	vector. Library was normalized. Library was constructed by Life Technologies. Contact : Feng Liang Life Technologies, a division of Invitrogen 9800 Medical Center Drive Rockville, Maryland 20850, USA Fax : (1) 301 610 8371	<pre>Bmail : fliang@lifetech.com URL : http://fulllength.invitrogen.com" BASE COUNT 220 a 253 c 312 g 206 t ORIGIN</pre>	24; Score 910.2; DB 74; Pred. No. 8e-205;	Conservative o; Mismarches	

Db 100 GCTCCCTGTATTATAACCTGTCAGGCTTGGTTAGGTTTTACTGGGGCAGAGGA 41	Oy 73 gtccgtgcgtcccgcggctggcgccctgactccgtcccggccagggaggg
Oy 1726 tagggaatctcttattaaaactaacatgaaatatgtgttgttt 1768	Db 60 GICCGIGCGICCGGGGCIGGCGCCCTGACTCCGTCCCGGCCAGGGAGGCCCATGATTT 119
DD 40 TAGGAACACTTAITAAACTAACAI-AAATAIGIGITIGIII	0y 133 ccttccggggcccctggtgaccaacttgctgccggttttgttcctggggctgagtgcc 192
	Db 120 CCCTCCCGGGGCCCCTGGTGAACTTGCTGCGGTTTTTTGTTCCTGGGGCTGAGTGCCC 179
RESULT 12	Ov 193 tegracecetegeggeegactgeaactgeaettgeeggeegatgeaggegg 252
LOCUS AL549049 973 bp mRNA linear EST	
16-FEB-2001 DEFINITION AL549049 LTI NPL006 PL2 Homo sapiens CDNA clone CSODI042XA17 5	Db 180 TCGCCCCCCTCGCGGGCCCAGCTGCAACTGCACTTGCCCGCCAACCGGTTGCAGGGG 239
prime, mRNA sequence.	Qy 253 tggagggagggaagtggtgcttccagcgtggtacaccttgcacggggaggtgtcttcat 312
ACCESSION AL549049 VERSION AL549049.1 GI:12884656	Db 240 TGGAGGGAGGGAAGTGGTGCTTCCAGCGTGGTACACCTTGCACGGGAGGTGTCTTCAT 299
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SOURCE DUMBAN. ORGANISM Homo sapiens	
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	Db 360 AGGIGITGICCIACATCAAIGGGGICACAACAAGCAAACTIGGAGIAICCTIGGICIACT 419
COMMENT Contact: Generalise	Ov 433 ccatocceteccogaacetotecetococogaqueteccaqqaqaaaaqaetetoqqee 492
BP 191 91006 EVRY cedex - France	Db 420 CCATGCCCTCCCGGAACCTGTCCCTGCGGCGGGGGGTCTCCAGGAGAAGACTCTGGGC 479
Email: se	
	Oy 493 cctacagctgctccgtgaatgtgcaagacaaaggcaaaatctaggggccacaggcatca 552
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/clone_lib="Lil"NYL006_PLZ" /tissue_type="placenta"	Db 540 AAACCTTAGAACTCAATGTACTGGTTCCTCCAGCTCCTCCATCCTGCCGTCTCCAGGGTG 599
was primed with a NotI-oligo (dT) primer. Five prime end	Qy 613 tgcccatgtgggggcaaacgtgaccttgagctgccagtctccaaggagtaagccggctg 672
enfiched, double-stranded conva was digested with Not 1 and cloned into the Not 1 and Eco RV sites of the DCMVSPORT 6	Db 600 IGCCCCATGTGGGGGCAAACGTGACCCTGAGCTGCCAGTCTCCAAGGAGTAAGCCCGCTG 659
vector. Library was normalized. Library was constructed by	
Life Technologies. Contact : Feng Liang Life Technologies,	Qy 673 tccaataccagtgggatcggcagcttccatccttccagactttcttt
a divibion of invitrogen 9800 medical center Drive Rockville, Maryland 20850, USA Fax : (1) 301 610 8371	Db 660 TCCAATACCAGTGGGATCGGCAGCTTCCATCCTACCAGACTTTCTTT
Email : fliang@lifetech.com URL :	
http://fulllength.invitrogen.com"	Oy 733 atgtcatccgtgggtctttaagcctcaccaacctttcgtcttccatggctggagtctatg 792
D 004	Db 720 AIGHCAICCGIGGGTCTITAAGCCTCACCAACCTITCGTCTICCAIGGCTGGAGTCTAIG 779
	Oy 793 tetgeaaggeceacaatgaggtgggeactgeceaatgtaatgt
Query Match Best Local Similarity 98.6%; Pred. No. 5.6e-204;	Db 780 TCTGCAAGGCCCACAATGAGGTGGGCACTGCCCAATGTAATGTGACGCTGGAAGTGAGGA 839
Matches 965; Conservative 2	
.;	Oy 853 cagggcctggagctgcagtggttgctggagctgttgfgggtaccctggttggactgggt 912
Qy. 13 ggtgtcagcggctccggcgcacgctccggccgtcgcgagcctcggcacctgcag 72	Db 840 CAGGGCCTGGAGCTGCAGTGCTGGAGCTGTTGTGGGTA-CCTGGTTGGACTGGGGT 898

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Query Match

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12

Description

Amino acid sequenc EGF-like homologue Human PR0246 amino 'Human secreted pro Human PRO246 polyp

Human viral recept

AAY27096

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Match Length Query

Human INTERCEPT 25

Fragment of human

Human shear stress

AAB90818

Human protein havi

Amino acid sequenc Human PRO246 prote Human angiogenesis

AAB68599 AAB31207

AAB80219

AAB53082 AAE06610 AAY76303 AAB65832

AAY94999

AAU12340 AAB88358

AAY05286

AAY13351 AAY88574 PRO246. Homo sapi

Human membrane or

Human secreted pro Human secreted pro Human secreted pro Murine mature INTE

Human secreted pro

AAB65906 AAB65904 AAB65905 AAB65833

AAB65907 ABB11937 AAM40551

Human clone vc51_1 Murine secreted pr

AAB65910

AAB65840 AAB65908 AAB65911

AAY95024

Human viral recept

Human polypeptide

Murine secreted pr Murine secreted pr Murine secreted pr Murine mature INTE Murine INTERCEPT 2 Human secreted pro Human INTERCEPT 25 Human INTERCEPT 25 Human INTERCEPT 25 Human secreted pro Human INTERCEPT 25 Murine INTERCEPT 2

> AAB65909 AAB65835 AAB65872 AAB65870 AAY25748 AAB65867 AAB65843 AAM38765 AAB65846 AAY95025 AAB65837 AAB65838 ABB10359 AAW57213

AAB65841

AAY76152 AAB65871

Murine INTERCEPT 2

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score greater than or equal to the score of the result being printed, Pred. No. is the number of results predicted by chance to have a and is derived by analysis of the total score distribution.

ALIGNMENTS

Mouse coxsackievir

Human cDNA SEQ ID

Mouse 10.3 kDa pro

AAE05354

Human polypeptide

Murine INTERCEPT 2 Human clone vc51_1 Murine INTERCEPT 2 Murine INTERCEPT 2

AAY27096

RESULT

ID AAY27096 standard; Protein; 390 AA.

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AAY27096;
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(first entry) 18-0CT-1999 receptor protein (ACVRP) Human viral

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Viral receptor protein; ACVRP; cancer; viral disorder; inflammation; gene therapy; human

sapiens Нощо

US5942606-A

24-AUG-1999

97US-0979424 24-NOV-1997; 97US-0979424 24-NOV-1997;

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(INCY-) INCYTE PHARM INC.

Lal P; Corley NC,

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WPI; 1999-493538/41 N-PSDB; AAX87000 Isolated and purified polynucleotide useful for treating preventing cancer, inflammation and viral disorders

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Claim 1; Fig 1A-D; 28pp; English

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can be expressed by standard recombinant methodology. ACVRP can be used for treating and/or preventing cancer, a viral disorder or inflammation through the administration of a vector expressing a polynucleotide which is fully complementary to the present sequence. Polynucleotides encoding ACVRP can be used for diagnostic purposes to quantitate ACVRP expression genomic sequence and detect differences in the chromosomal location in heterologous sequence to produce a fusion protein which can be used to screen peptide libraries for inhibitors of ACVRP activity and to screen used to distinguish between the absence, presence and excess expression vectors which encode ACVRP can be used to deliver nucleotide sequences ACVRP by blocking transcription of the mRNA, modulating ACVRP activity treat conditions associated with overexpression of Hybridisation probes can be used for mapping the naturally occurring This represents a human viral receptor protein (ACVRP). The protein for novel antiprotozoal and antifungal therapeutics. The expression normal, carrier or affected individuals. ACVRP may be ligated to a in biopsied tissues and correlate expression with disease. They of ACVRP and to monitor levels during therapeutic intervention. to targeted organ, tissue or cell populations and complementary gene function. polynucleotides to or regulating the

Ź 390 Sequence Length 390; Score 2012; DB 20; Pred. No. 5.8e-143 100.04; 100.0%; Best Local Similarity Query Match

300 360 240 300 sdtiskngtlssvtsaralrpphgpprpgaltptpslssgalpsprlpttdgahpqpisp 360 180 180 240 120 120 9 9 sssgpwevpfvmwffkgkekedgvlsyingvttskpgvslvysmpsrnlslrleglgekd sgpyscsvnvgdkggksrghsiktlelnvlvppappscrlggvphvganvtlscqsprsk pavoyomdrolpsfotppapaldvirgslsltnisssmagvyvckahnevgtaocnvtle vstgpgaavvagavvgtlvglgllaglvllyhrrgkaleepandikedaiaprtlpwpks SDTISKNGTLSSVTSARALRPPHGPPRPGALTPTPSLSSQALPSPRLPTTDGAHPQPISP SSSQPWEVPFVMWPFKQKEKEDQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLQEKD SGPYSCSVNVQDKQGKSRGHSIKTLELMVLVPPAPPSCRLQGVPHVGANVTLSCQSPRSK VSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHRRGKALEEPANDIKEDAIAPRTLPWPKS MISLPGPLVTINLLRFLFLGLSALAPPSRAQLQLHLPANRLQAVEGGEVVLPAWYTLHGEV mislpgplvtnllrflflglsalappsraqlqlhlpanrlqaveggevvlpawytlhgev ipggvsssglsrmgavpvmvpaqsqagslv 390 361 IPGGVSSSGLSRMGAVPVMVPAQSQAGSLV 390 121 121 181 241 241 301 361 61 19 181 301 쉱 g 요 ò 셤 ઠે 셤 ଧ 셤 셤 8 ò ò ਨੇ

AAY13351

standard; Protein; 390 AA AAY13351

AAY13351; XX

(first entry) 25-JUN-1999

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Amino acid sequence of protein PRO246

cancer; fibromodulin; dermal scarring; Usher Syndrome; Atrophia areata; Secreted protein; transmembrane protein; human; enterocolitis; abnormal keratinocyte differentiation; psoriasis; epithelial Parkinson's disease; Alzheimer's disease; ALS; neuropathy; congenital microvillus atrophy; skin disease; cell growth Zollinger-Ellison syndrome; gastrointestinal ulceration anti-thrombotic; wound healing; tissue repair

Homo sapiens

W09914328-A2

25-MAR-1999

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98WO-US19330 16-SEP-1998;

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be used for treating problems of the kidney, uterus, endometrium, blood
                                                                                                                                                                                                                  ulceration and congenital microvillus atrophy), skin diseases associated
                                                                                                                                                                                                                                  with abnormal keratinocyte differentiation (e.g. psoriasis, epithelial
                                                                                                                                                                                                                                                                                                    Alzheimer's disease, ALS, neuropathies or cancer. PRO265 can be used as
                                                                                                                                                                                                                                                                                                                     for fibromodulin, e.g. for reducing dermal scarring. PRO264 can be used
                                                                                                                                                                                                                                                                                                                                                                                        therapeutic applications in wound healing and tissue repair; PRO317 can
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                                                                                                                                                                                                                                                  cancers such as lung squamous cell carcinoma of the vulva and gliomas)
                                                                                                                                                                                                                                                                                                                                    as a target for anti-tumor drugs. PRO533 may be used in the treatment
                                                                                                                                               known polypeptides, e.g. PRO211 and PRO217 can be used for disorders
                                                                                                                                                                 associated with the preservation and maintenance of gastrointestinal
                                                                                                                                The encoded polypeptides have specific uses based on their homology
                                                                                                              fetal lung, fetal kidney, fetal brain, fetal liver and fetal retina
                                                                                              The CDNA sequences are obtained from cDNA libraries, prepared from
                                                                                                                                                                                                                                                                    potent effects on cell growth and development, diseases related to
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New isolated human genes and polypeptides used in, e.g. treatment
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                                                                               AAY13344-403 represent secreted and transmembrane human proteins
                                                                                                                                                                                                                                                                                     growth or survival of nerve cells including Parkinson's disease,
                                                                                                                                                                                                                                                                                                                                                      of Usher Syndrome or Atrophia areata; PR0269 can be used as an
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                                                Claim 12; Fig 17; 320pp; English
               gastrointestinal ulceration
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Antibody; PRO187; PRO533; PRO214; PRO240; PRO211; PRO230; PRO261;
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                 Genes expressing (I), many of which are growth factor homologues, are
                                                                                                                                                                                                                                                                                                                                                                                                                  sssqpwevpfvmwffkgkekedqvlsyingvttskpgvslvysmpsrnlslrleglqekd 120
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chemotherapeutic agent or radioisotope
                                                                                                                                                                                                            Gapa
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181 PAVQYQMDRQLPSFQTFFAPALDVIRGSLSLTNLSSSMAGVYVCKAHNEVGTAQCNVTLE
                                                                                                                                                                                                                                                                                                                                                                        SSSQPWEVPFVMWPFKQKEKEDQVLSYINGVITISKPGVSLVYSMPSRNLSLRLEGLQEKD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SGPYSCSVNVQDKQGKSRGHSIKTLELAVLVPPAPPSCRLQGVPHVGANVTLSCQSPRSK
                                                                                                                                                                                                                                                                                MISLPGPLVTNLLRFLFLGLSALAPPSRAQLQLHLPANRLQAVEGGEVVLPAWYTLHGEV
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRO317; tumour growth inhibitor; cancer; diagnosis; treatment;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cell growth; proliferation; cell surface virus receptor; ADEPT;
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                                                                                                                                                                                                                                                                                                                                                                                            Length 390;
                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          antibody dependent enzyme mediated prodrug therapy
                                                                                                                                                            Score 2012; DB 20;
                                                                                                                                                                                   Pred. No. 5.8e-143;
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                                                                                                                                                                                                            0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ipggvsssglsrmgavpvmvpagsgagslv 390
                                           cases of cancer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAY88574 standard; Protein; 390 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human PRO246 amino acid sequence
   may be conjugated to a toxin,
                                                                                                                                                              100.04;
                                                                                                                                                                                 100.0%;
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                                                                                                                                                                                                            Matches 390; Conservative
                                           overexpressed in some
                                                                                                                                                                            Best Local Similarity
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                                                                                             Sequence
                                                                                                                                                                 Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRO246;
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                                                                                                                                                                                                                                                                                                                              PRO261;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          quantification of (I) in cells or tissues, by standard immunoassays,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            expression and/or activity of (I) are used: (i) to inhibit growth of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   tumours; and (ii) as diagnostic/prognostic reagents for detection or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                polypeptides (I) designated PRO187; PRO533; PRO214; PRO240; PRO211;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to antibodies (Ab) that bind to any of the
                                                                                                                                                                                                                                                                                                                              Antibody; PRO187; PRO533; PRO214; PRO240; PRO211; PRO230;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Antibodies against specific proteins overexpressed in tumours
                                                                                                                                                                                                                                                                                                                                                                          EBAR-2; inhibitor; tumour growth; cancer; EGF-like homologue;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Lawrence DA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This sequence represents the EGF-like homologue PRO246.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Hillan K,
                          ipggvsssglsrmgavpvmvpagsgagslv 390
   Gurney A,
                                                                                                                                         AAY05286 standard; Protein; 390 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 1; Fig 27; 130pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       97US-0059114
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                                                                                                                                                                                                                                                                                  EGF-like homologue PR0246
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                                                                                                                                                                                                                                                                                                                                                                                                 FGF-8 homologue
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disorder; haemophilia; autoimmune disease; diabetes; inflammation;
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                                                                                             SgpyscsvnvqdkggksrghsiktleInvlvppappscrlqgvphvganvtlscqsprsk
                                                                                                                                                                                                     SGPYSCSVNVQDKQGKSRGHSIKTLELAVLVPPAPPSCRLQGVPHVGANVTLSCQSPRSK
                                                                                                                                                                               PAVQYQMDRQLPSPQTFPAPALDVIRGSLSLTNLSSSMAGVYVCKAHNEVGTAQCNVTLE
                                                                                                                                                                                                                                                                                     VSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHRRGKALEEPANDIKEDAIAPRTLPWPKS
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                                                                                                                                                                                                                                                                                                                                                                                                            Human; secreted protein; cancer; tumour; cardiovascular disorder;
                                                                                                                                                                                                                                                                                                            infection; fungal; bacterial; viral; HIV; allergy; arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               neurodegenerative disease; asthma; contraceptive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human secreted protein vc51_1, SEQ ID NO:38.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This sequence represents a human PRO246 amino acid sequence. PRO246 is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      antibodies are used in the production of the antibodies. The antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRO211, PRO230, PRO261, PRO246 or PRO317 polypeptide. The antibody can
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      conjugating the antibody to a prodrug-activating enzyme which converts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           mammal. The antibodies are used for inhibiting the growth of tumour
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       encoded by genes which are over expressed in the genome of tumour cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             used in antibody dependent enzyme mediated prodrug therapy (ADEPT) by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SSSQPWEVPFVMWFFKQKEKEDQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLQEKD 120
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New isolated antibodies which bind to specific polypeptides used for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           and identifying compounds that inhibit a biological or immunological
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             and nucleic acids encoding them are used for diagnosing a tumour in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                diagnosis and treatment of neoplastic cell growth and proliferation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             probably a cell surface virus receptor. The invention relates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         an anti-cancer drug. The antibodies can be fluorescently
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               labelled and monitored by light microscopy, flow cytometry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              antibodies which bind to a polypeptide. The "PRO" polypeptides are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     activity of and/or expression of a PRO187, PRO533, PRO214, PRO240,
                                                                                                                                                                                                                                                                                                                                           Botstein D;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                mislpgplvtnllrflflglsalappsraqlqlhlpanrlqaveggevvlpawytlhgev
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Vectors and host cells comprising the nucleic acid encoding the
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100.0%; Score 2012; DB 21;

for diagnosis and prognosis of tumours

prodrug to

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cella

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fluorimetry

390 AA;

Sequence

Pred. No. 5.8e-143;

100.04;

Best Local Similarity

Query Match

Conservative

Matches 390;

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0; Mismatches

Wood WI,

Roy MA,

Hillan KJ,

Gurney AL,

Goddard A,

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WPI; 2000-271386/23

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N-PSDB; AAA30052

(GETH) GENENTECH INC

98WO-US18824

99WO-US20594 98US-0099803

08-SEP-1999; 10-SEP-1998; 10-SEP-1998;

X & X & X & X & X X

23-MAR-2000

40200015666-A2 Homo sapiens

7,5

Example 8; Fig 16; 200pp; English

X & X U U

or transmembrane proteins and polynucleotides encoding for treating neurodegenerative disorders, autoimmune diseases and cancer New secreted them, useful

Claim 47; Page 296-297; 357pp; English

invention may exhibit one or more activities selected from the The invention relates to 40 human secreted proteins (AAY94981-Y95020), partially secreted, i.e., transmembrane proteins. The proteins of the proteins of the invention include those that are thought to be only and cDNA sequences encoding them (AAA23423-A23462). The secreted

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activin/inhibin activity; chemotactic/chemokinetic activity; haemostatic ilcers, osteoporosis, osteoarthritis, periodontal diseases, Alzheimer's additionally be useful as contraceptives. Nucleic acid sequences of the present sequence represents one of egime. Diseases or conditions that may be treated using the proteins or rheumatoid arthritis; pulmonary inflammation; Guillain-Barre syndrome asthma and anaemia. They may also be used for treating wounds, burns. inhibition activity. The proteins may be administered to patients as insulin dependent diabetes mellitus; and allergic reactions such as vaccines, and the nucleotides may be used as part of a gene therapy lateral sclerosis (ALS). Proteins with activin/inhibin activity may disorders; haemophilia; cardiovascular diseases; cancer; bacterial, disease, Parkinson's disease, Huntington's disease and amyotrophic and thrombolytic activity; anti-inflammatory activity; and tumour nucleotides of the invention include autoimmune diseases; genetic fungal and viral infections, especially HIV; multiple sclerosis; invention may be used in chromosome mapping, and as a source of modulation; haematopoiesis regulation; tigsue growth activity; cytokine activity; cell proliferation; differentiation; immune diagnostic primers and probes. The

40 proteins of the invention

390 AA Sequence

Gaps ö Length 390; Indels DB 21; ó, Pred. No. 5.8e-143; 0; Mismatches 100.0%; Score 2012; 100.04; Matches 390; Conservative Best Local Similarity Query Match

- MISLPGPLVTNLLRPLPLGLSALAPPSRAQLQLHLPANRLQAVEGGEVVLPAWYTLHGEV ઠે
- mislpgplvtnllrflflglsalappsraglglhlpanrlgaveggevvlpawytlhgev

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- SSSQPWEVPFVMWFFKQKEKEDQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLQEKD 61 ò
- 888qpwevpfvmwffkqkekedqvl8yingvtt8kpgv8lvy8mpsrnl8lrleglqekd 120 19

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180 SGPYSCSVNVQDKQGKSRGHSIKTLELNVLVPPAPPSCRLQGVPHVGANVTLSCQSPRSK sgpyscsvnvgdkggksrghsiktlelnvlvppappscrlggvphvganvtlscgsprsk 121 121

360 sdtiskngtlssvtsaralrpphgpprpgaltptpslssgalpsprlpttdgahpqpisp 360 VSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHRRGKALEEPANDIKEDAIAPRTLPWPKS SDIISKNGILSSVISARALRPPHGPPRPGALTPTPSLSSQALPSPRLPTTDGAHPQPISP 241 301 301 요 ò ద ઠ

361 ipggvsssglermgavpvmvpaqsqagslv 390 g

AAU12340 RESULT

AAU12340 standard; Protein; 390 AA.

AAU12340;

24-OCT-2001 (first entry)

Human PRO246 polypeptide sequence

cartilage; ear; proliferation; glucose; free fatty acid; skeletal breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha; Human secretory and transmembrane; PRO; mammalian; cancer; lung; muscle;

adipocyte; A-peptide; factor VIIA; gene therapy ₹

Homo sapiens × W0200140466-A2

07-JUN-2001

01-DEC-2000; 2000WO-US32678

99WO-US28564 02-DEC-1999

99WO-US28565 99WO-US30095 99US-0170262 02-DEC-1999 09-DEC-1999 16-DEC-1999

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99WO-US31243 99WO-US30911 99WO-US30999 20-DEC-1999 20-DEC-1999 30-DEC-1999 2000WO-US00277 2000WO-US00376 2000WO-US03565 2000WO-US04341 11-FEB-2000; 06-JAN-2000; 06-JAN-2000; 18-FEB-2000;

24-FEB-2000; 18-FEB-2000;

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22-MAY-2000; 2000WO-US14042.
                                  30-MAY-2000; 2000WO-US14941.
                                           10-NOV-2000; 2000WO-US30873.
24-PEB-2000; 2000WO-US05004.
     2000WO-US05601.
          2000WO-US07377.
                                       02-JUN-2000; 2000WO-US15264.
               21-MAR-2000; 2000WO-US07532.
                   2000WO-US08439.
                        17-MAY-2000; 2000WO-US13705.
                    30-MAR-2000;
     01-MAR-2000;
          20-MAR-2000;
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(GETH) GENENTECH INC.

Tumas D, Watanabe CK, Wood WI, Zhang Z; Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, (Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S; Stewart TA, Smith V,

WPI; 2001-408281/43. N-PSDB; AAS21412.

other PRO polypeptides, link bioactive molecules to cells expressing Isolated, secretory and transmembrane PRO polypeptide used to detect PRO polypeptides, and detect the presence of mammalian tumours e.g. lung, breast, prostate, cervical

Claim 12; Fig 338; 813pp; English.

PRO polypeptides, to modulate biological activities of cells expressing proliferation or differentiation of chondrocytes, the proliferation or cartilage, the proliferation of inner ear utricular supporting cells or the PRO polypeptides may modulate glucose or free fatty acid uptake by skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide to factor VIIA. The PRO polypeptides can be used in assays to identify molecules involved in binding interactions. The polynucleotides encoding PRO polypeptides, and to detect the presence of mammalian lung, colon, monocytes (PBMCs), or the proliferation of endothelial cells. Some of Some of the 275 sequences are also useful to stimulate the release of breast, prostate, rectal, cervical or liver tumours by comparing PRO gene expression in pericyte cells, the release of proteoglycans from polypeptide expression in a cell sample to that in a control sample. AAU12172-AAU12446 represent novel human secretory and transmembrane PRO polypeptides can be used to generate probes, antisense RNA/DNA, of T-lymphocytes, the release of a cytokine from peripheral blood PRO polypeptides. The PRO polypeptides are useful to detect other PRO polypeptides, to link bioactive molecules to cells expressing transgenic or knock out animals and can be used in gene therapy. tumour necrosis factor-alpha (TNF-alpha) from human blood, the

390 AA; Sequence

Gaps Query Match 100.0%; Score 2012; DB 22; Length 390; Best Local Similarity 100.0%; Pred. No. 5.8e-143; Indels °, 0; Mismatches Matches 390; Conservative 1 MISLPGPLVTNLLRPLFLGLSALAPPSRAQLQLHLPANRLQAVEGGEVVLPAWYTLHGEV 60

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	q	121 sgpyscsvnvqdkqg		180
·.	ò	181 PAVQYQWDRQLPSFQ1	PAVQYQWDRQLPSFQTFFAPALDVIRGSLSLTNLSSSMAGVYVCKAHNEVGTAQCNVTLE 24	240
	qq	181 pavqyqwdrqlpsfqt		240
	à	241 VSTGPGAAVVAGAVVC		300
	q			300
	ò	301 SDTISKNGTLSSVTS		360
	QQ	301 sdtiskngtlesvts		360
	ò	361 IPGGVSSGLSRMGAVPVMVPAQSQAGSLV	VPVMVPAQSQAGSLV 390	
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	텀	23-MAY-2001 (first	entry)	
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	ž X	rneumatoid arthritis; diabetes	; diaberes.	
	SO	Homo sapiens.		
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	Z X	, 1809at , 1		
	DR	WPI; 2001-093989/11.		
	DR R	N-PSDB; AAF93785.		

to isolate This invention relates to nucleic acid sequences AAF93744 - AAF93916 which encode human secretory or membrane proteins represented by AAF93917 - AAF94295 and AAF62232 - AAF62235 which are used AAB88317 - AAB88419. Included in the invention are primers Claim 1; SEQ ID 84; 609pp + CD ROM; English

presence of similar nucleic acid sequences in samples. They may also be as antigens in the production of antibodies against them and in assays used to study the expression and function of secretory proteins/membrane polypeptides and their role in metabolism. The polypeptides may be used sequences, which can be used in vaccines. The polynucleotide sequences protein/membrane protein expression. The nuçleic acids and complementary sequences may also be used as DNA.probes. In diagnostic assays cDNA sequences of the invention. The invention also includes methods for the production of antibodies directed against the proteins, and cDNA (e.g. polymerase chain reactions (PCR)) to detect and quantitate the can be used in gene therapy. The polynucleotide sequences and the proteins they encode may be used in the prevention, treatment and diagnosis of diseases associated with inappropriate secretory

The antibodies and antagonists may also be used as therapeutic agents to down regulate expression and activity. The antibodies may also (ELISA). Examples of diseases which may be treated include rheumatoid polypeptides in samples (e.g. by enzyme linked immunosorbant assay identify modulators (agonists and antagonists) of expression and be used as diagnostic agents for detecting the presence of the

390 AA Sequence

Gaps ô Length 390; Indels 100.0%; Score 2012; DB 22; Pred. No. 5.8e-143; ô 0; Mismatches 100.04; Conservative Best Local Similarity Matches 390; Query Match

mislpgplvtnllrflflglsalappsraqlqlhlpanrlqaveggevvlpawytlhgev MISLPGPLVTNLLRFLFLGLSALAPPSRAQLQLHLPANRLQAVEGGEVVLPAWYTLHGEV 셤

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SSSOPWEVPFVMWFFKOKEKEDOVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLOEKD ઠે

sssqpwevpfvmwffkqkekedqvlsyingvttskpgvslvysmpsrnlslrleglqekd 120 61

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SGPYSCSVNVQDKQGKSRGHSIKTLELNVLVPPAPPSCRLQGVPHVGANVTLSCQSPRSK 180 sgpyscsvnvqdkqgksrghsiktlelnvlvppappscrlqgyphvganvtlscqsprsk 180 121

PAVOYOWDROLPSPOTPFAPALDVIRGSLSLTNLSSSMAGVYVCKAHNEVGTAQCNVTLE 181

pavqyqwdrqlpsfqtffapaldvirgslsltnlsssmagvyvckahnevgtaqcnvtle 240 181

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VSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHRRGKALEEPANDIKEDAIAPRTLPWPKS 300

301 sdtiskngtlssvtsaralrpphgpprpgaltptpslssqalpsprlpttdgahpqpisp 360 ipggvsssglsrmgavpvmvpaqsqagslv 390 IPGGVSSSGLSRMGAVPVMVPAQSQAGSLV 390 361 ò 유

SDÍISKNGTLSSVISARALRPPHGPPRPGALTPIPSLSSQALÞSPRLPITDGAHPQPISP 360

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AAB68599 RESULT

AAB68599 standard; Protein; 390 AA

AAB68599;

(first entry) 27-APR-2001

Cytostatic; PRO protein; tumour; cancer

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WO200105836-A1

25-JAN-2001

99WO-US30999 20-DEC-1999; 品質

99US-0144758 99WO-US20594 08-SEP-1999; 26-JUL-1999

99WO-US21090 99WO-US23089 99WO-US28214 99WO-US20944 13-SEP-1999 15-SEP-1999 05-0CT-1999 29-NOV-1999

99WO-US28313 99WO-US28564 30-NOV-1999 02-DEC-1999

(GETH) GENENTECH INC

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Wood WI; Roy MA, Hillan KJ, Gurney AL, Goddard A, Botstein D,

N-PSDB; AAF60372.

antibody that binds to a PRO polypeptide, e.g. PRO187 and PRO533, useful for diagnosing and treating cancers -

PRO present sequence is one such PRO protein. It was found that the present invention relates to PRO proteins and coding Claim 61; Fig 16; 196pp; English

are amplified in the genome of tumour cells. The gene amplification is

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PRO6309; cell death; genetic disorder; transgenic animal; gene therapy
                PRO1183; PRO1272; PRO1419; PRO4999; PRO7170; PRO248; PRO353; PRO1318;
                                                     PRO246; PRO265; PRO941; PRO10096; PRO6003; PRO6004; PRO350; PRO2630;
                                   PRO1600; PRO9940; PRO533; PRO301; PRO187; PRO337; PRO1411; PRO4356;
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expected to be associated with the overexpression of the gene product
                                      contributes to tumourigenesis. Therefore, antagonists of PRO proteins
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                                                                             the treatment of benign or malignant tumours, leukaemias,
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                                                                    2000WO-US04414
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                                                   18-FEB-2000;
                                                                                     01-MAR-2000;
                                   18-FEB-2000;
                                                                                                       02-MAR-2000;
07-DEC-1999;
                 05-JAN-2000;
                                                                    22-PEB-2000;
                                                                                                                      20-MAR-2000;
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SSSQPWEVPFVMWFFKQKEKEDQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLQEKD 120 sssqpwevpfvmwffkqkekedqvlsyingvttskpgvslvysmpsrnlslrleglqekd 120

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(GETH) GENENTECH INC.

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17-MAY-2000; 2000WO-US13705

2000WO-US08439 2000WO-US13358

30-MAR-2000;

LS-MAY-2000;

Stewart TA, Tumas D, Watanabe CK, Williams PM; Desnoyers L, Eaton DL; Gerritsen ME, Goddard A; Mather JP, Napier MA, Fong S, Gao W, Gerber H, Ashkenazi AJ, Baker KP, Botstein DA, Gurney AL, Kljavin IJ, Gouc... Paoni NF, ko, ROY MA, Godowski PJ, Perrara N,

WPI; 2001-050091/06

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N-PSDB; AAC87040.

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transmembrane polypeptide is useful for gene therapy and identification Isolated nucleic acid molecule encoding a PRO polypeptide which is a of related polypeptides -

Claim 12; Fig 58; 244pp; English.

PRO6004, PRO350, PRO2630 and PRO6309. The biological activity of cells analysing genetic disorders, and to produce transgenic animals which are The present sequence represents a human secreted and transmembrane polypeptide. The specification describes human polypeptides, designated can be modulated with agents that bind to these polypeptides, resulting PRO345, PRO1361, PRO1308, PRO1183, PRO1272, PRO1419, PRO4999, PRO7170, PRO248, PRO353, PRO1318, PRO1600, PRO9940, PRO533, PRO301, PRO187, PRO337, PRO1411, PRO4356, PRO246, PRO265, PRO941, PRO10096, PRO6003, PRO196, PRO444, PRO183, PRO185, PRO210, PRO215, PRO217, PRO242, PRO288, polypeptides, as a hybridisation probe to screen libraries to isolate homologous sequences, or to map the gene. They may also be used for reagents. The polynucleotides can also be used in gene therapy e.g. useful for the development and screening of therapeutically useful in the death of the cells. The polynucleotides encoding these polypeptides are useful in the recombinant production of the replace a defective gene.

390 AA;

Gaps ö Length 390; Indels 100.0%; Score 2012; DB 22; . 0 Best Local Similarity 100.0%; Pred. No. 5.8e-143; 0; Mismatches Matches 390; Conservative Query Match

1 MISLPGPLVTNLLRPLFLGLSALAPPSRAQLQLHLPANRLQAVEGGEVVLPAWYTLHGEV 60

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λ	121 SGPYSCSVNVQDKQGKSRGHSIKTLELNVLVPPAPPSCRLQGVPHVGANVTLSCQSPRSK 180
qq	121 sgpyscsvnvqdkqgksrghsiktlelnvlvppappscrlqgvphvganvtlscqsprsk 180
ò	181 PAVQYQWDRQLPSFQTFFAPALDVIRGSLSLTNLSSSMAGVYVCKAHNEVGTAQCNVTLE 240
б	181 pavqyqwdrqlpsfqtffapaldvirgslsltnlsssmagvyckahnevgtaqcnvtle 240
ờ	241 VSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHRRGKALEEPANDIKEDAIAPRTLPWPKS 300
qq	241 vstgpgaavvagavvgtlvglgllaglvllyhrrgkaleepandikedalaprtlpwpks 300
ò	301 SDTISKNGTLSSVISARALRPPHGPPRPGALTPTPSLSSQALPSPRLPTTDGAHPQPISP 360
đ	301 sdtiskngtlesvtsaralrpphgpprpgaltptpslesgalpsprlpttdgahpgpisp 360
È	361 IPGGVSSSGLSRMGAVPVMVPAQSQAGSLV 390
4	361 ipggvsssglsrmgavpvmvpagagalv 390
RESULT	LT 10
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A ,}	AAB80219 standard; Protein; 390 AA.
4 2	AAB80219;
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TC	24-APR-2001 (first entry)
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4	numan Frocts process.
\$ \$	Human: PRO: dermatological: antipsoriatic: cytostatic: antiinflammatory;
<u> </u>	rkinsonian nootropic: neuroprotective: vulnerar
K	antiangiogenic; vasotropic; antiasthmatic; antirheumatic; cancer;
KW	antiarthritic, antiinfertility; antidiabetic; antiviral; diabetes;
₹	ophthalmological; gene therapy; skin disease; gastrointestinal disorder;
ž X	ischaemia; intlammation.
SO	Homo sapiens.
X	
Nd	WO200104311-A1.
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G .	18-JAN-2001.
X :	
XX	22-FEB-2000; 2000WO-USO4414.
PR Rd	07-JUL-1999; 99US-0143048.
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PR	13 - SEP - 1999; VYNO - CS2044.

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99WO-US28214.
        99WO-US21547
                                99WO-US28313
                                                99WO-US30911
99WO-US21090
                99WO-US23089
                                        99WO-US30095
                                                       99WO-US30999
                                                               99WO-US00219
                                                               05-JAN-2000;
15-SEP-1999
        15-SEP-1999
                05-0CT-1999
                        29-NOV-1999,
                               30-NOV-1999
                                        16-DEC-1999
                                                20-DEC-1999
                                                       20-DEC-1999
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(GETH) GENENTECH INC.

Gerritsen ME, Goddard A; Ferrara N; Kljavin IJ; Tumas D; Eaton DL, Stewart TA Hillan KJ, - %. Botstein D, Desnoyers L, Filvaroff E, Fong S, Gao W, Gerber H, Godowski PJ, Grimaldi CJ, Gurney AL, 1 Mather JP, Pan J, Paoni NF, Roy MA, Williams PM, Wood WI; Ashkenazi AJ,

WPI; 2001-081051/09.

N-PSDB; AAF72379.

Sixty one nucleic acids encoding PRO polypeptides which are useful in the treatment of skin diseases (e.g. psoriasis), cancers (e.g. lung squamous cell carcinoma) and neurodegenerative diseases (e.g. Alzheimer's disease)

Claim 1; Fig 17; 393pp; English.

The PRO nucleic acids have applications in molecular biology, including useful for treating skin diseases (e.g. psoriasis), cancers (e.g. lung enterocolitis), neurodegenerative diseases (e.g. Alzheimer's disease, Parkinson's disease), wound repair, cardiovascular disorders (e.g. ischaemia, atherosclerosis), inflammatory disorders (e.g. asthma, rheumatoid arthritis, multiple sclerosis), infertility, AIDS and use as hybridization probes, and in chromosome and gene mapping endometrial bleeding angiogenesis, ischaemias such as coronary diabetes and retinal disorders such as retinitis pigmentosum. The present sequence is one of sixty one novel secreted and squamous cell carcinoma), gastrointestinal disorders (e.g. transmembrane PRO polypeptides. The PRO polypeptides are

390 AA; Sequence

Gaps ö 100.0%; Score 2012; DB 22; Length 390; Indels . 0 100.0%; Pred. No. 5.8e-143; 0; Mismatches Matches 390; Conservative Best Local Similarity Query Match

1 MISLPGPLVTNILRFLFLGLSALAPPSRAQLQLHLPANRLQAVEGGEVVLPAWYTLHGEV 60

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99US-0144758. 99US-0145698. 99WO-US20111. 99WO-US20594. 99WO-US21090. 99WO-US21547.

99US-0141037

23-JUN-1999; 26-JUL-1999;

20-JUL-1999; 01-SEP-1999; 08-SEP-1999; 15-SEP-1999,

- SSSQPWEVPPVMWPPKQKEKEDQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLQEKD 120 sssqpwevpfvmwffkqkekedqvlsyingvttskpgvslvysmpsrnlslrleglqekd 120 19 61 ò 셤
- 121 SGPYSCSVNVQDKQGKSRGHSIKTLELAVLVPPAPPSCRLQGVPHVGANVTLSCQSPRSK 180 ઠે

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đ	181 pavgygwdrglpsfgtffapaldvirgslsltnisssmagvyvckahnevgtagcnvtle 240	0
ઠે	241 VSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHRRGKALEEPANDIKEDAIAPRTLFWPKS 300	0
gg	241 vstgpgaavvagavvgtlvglgllaglvllyhrrgkaleepandikedaiaprtlpwpks 300	0
ò	301 SDTISKNGTLSSVTSARALRPPHGPPRPGALTPTPSLSSQALPSPRLPTTDGAHPQPISP 360	0
d		0
ð	361 IPGGVSSGLSRMGAVPVMVPAQSQAGSLV 390	
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A	AAB53082 standard; Protein; 390 AA.	
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X E	Himman and occaped a second atted noted a DR0246. SEC ID NO:96.	
3 \$		
\$ £	Human: angiogenesis-associated protein; PRO: endothelial cell growth;	3,5
. ₹	cardiac hypertrophy; cardiovascular disorder; endothelial diso	
KW	angiogenic	
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¥.	CIONN'S GISCASE; psoliasis; chommetricals; dicer; would hearthy;	4
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SO	Homo sapiens.	
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<u>유</u>	14-SEP-2000.	
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1 8	08_M3B_1999, 99WO_11505028	
, E	10-MAD-1999.	
¥ 5	14-MAY-1999;	
P. P.	02-JUN-1999;	

99WO-US23089

05-OCT-1999;

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PR 02-DEC-1999; 99WO-US28565.
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(GETH) GENENTECH INC

政策計算数

Ashkenazi AJ, Baker KP, Ferrara N, Gerber H, Goddard A; Godowski PJ, Gurney AL, Hillan KJ, Kuo SS, Mark MR, Marsters SA; Paoni NP, Pitti RM, Watanabe CK, Williams PM, Wood WI;

SSSQPWEVPFVMWFFKQKEKEDQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLQEKD 120

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WPI; 2001-090793/10

N-PSDB; AAC97441

883222

New isolated nucleic acid for producing a PRO polypeptide, analyzing genetic disorders and treating cardiovascular, endothelial or angiogenic disorders, such as atherosclerosis, wounds or cancer -

240

121 agpyscsvnvgdkggksrghsiktlelnvlvppappscrlqgvphvganvtlscqsprsk 180

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SGPYSCSVNVQDKQGKSRGHSIKTLELNVLVPPAPPSCRLQGVPHVGANVTLSCQSPRSK

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PAVQYQWDRQLPSRQTFFAPALDVIRGSLSLTNLSSSMAGVYV¢KAHNEVGTAQCNVTLE

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241 VSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHRRGKALEEPANDIKEDAIAPRTLPWPKS

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IPGGVSSSGLSRMGAVPVMVPAQSQAGSLV

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SDIISKNGILSSVISARALRPPHGPPRPGALIPIPSLSSQALPSPRLPIIDGAHPQPISP

Claim 69; Fig 38; 293pp; English.

The invention relates to novel human angiogenesis-associated proteins designated PRO proteins (AAB53064-B53097), and to nucleic acids encoding PRO proteins. The invention also relates to vectors and host cells comprising a PRO nucleic acid, the recombinant production of a PRO protein, PRO antibodies specific for a PRO protein, fusion proteins compounds which inhibit the expression of a PRO gene. The invention additionally encompasses methods of identifying modulators of PRO expression or activity; diagnosing a cardiovascular, endothelial or angiogenic disorder, or a susceptibility to such a disorder by detecting mutations in a PRO gene, or the expression level of a PRO gene within a particular tissue; treating a cardiovascular, endothelial or angiogenic disorder via the administration of a PRO protein, PRO nucleic acid, or PRO agonist or antagonist; a retroviral gene therapy vector comprising

PRO nucleic acid; and methods of inhibiting or stimulating endothelial cell growth, cardiac hypertrophy or PRO-induced angiogenesis via the administration of a PRO protein, or an agonist or antagonist thereof. PRO nucleic acids, PRO proteins, antibodies against PRO proteins, PRO agonists and PRO antagonists may be used as therapeutic agents to treat cardiovascular, endothelial or angiogenic disorders, such as atherosclerosis, osteoporosis, myocardial infarction, hypertension, diabetic retinopathy, rheumatoid arthritis, Crohn's disease, psoriasis, endometriosis, ulcers, wounds, cancer, Alzheimer's disease, Huntington's disease, or stroke. PRO nucleic acids are additionally useful in the recombinant production of PRO proteins, as hybridisation probes to screen libraries to isolate cDNAs with sequence identity to PRO

to map genes encoding PRO proteins, to analyse genetic disorders, and in gene therapy. PRO nucleic acids can also be used to produce transgenic animals useful for the development and screening of potential therapeutic agents. The present sequence represents a PRO protein of the invention.

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Seguence 390 AA;

Query Match 100.0%; Score 2012;

Length 390;

DB 22;

immunomodulatory; autoimmune disorder; haematopoiesis; tissue growth activity; Parkinson's disease; cytostatic; Huntington's disease; Alzheimer's disease; chemotactic; chemokinetic; haemostatic; thrombolytic; tumour growth inhibitor; anabolic; multiple sclerosis; rheumatoid arthritis; insulin-dependent diabetes; Human; hydrophobic domain; gene therapy; nutritional supplement; Human protein having hydrophobic domain, HP10801 contraceptive; antiinfertility; antiinflammatory Location/Qualifiers AAE06610 standard; Protein; 390 proliferation; (first entry) Homo sapiens 25-SEP-2001 cell antimicrobial; AAE06610, RESULT 12 AAE06610 ₹ **XXEX** ₹ ₹ **₹** ğ

/label= Signal_peptide

Peptide Protein

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Sugano
Nakamura Y,
Sekine S,
Kuga T,
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WPI; 2001-266308/27 N-PSDB; AAH02949 DNA sequences, proteins encoded by them and antibodies against them useful in diagnosis and treatment of vascular disease caused by arteriosclerosis

Claim 35; Page 599-601; 678pp; Japanese.

number of human shear stress response proteins. These are useful in the The present invention provides the protein and coding sequences of a arteriosclerosis, including heart failure, post-PTCA restenosis and diagnosis, treatment and screening of vascular diseases caused by hypertension.

390 AA; Sequence

Gape ö Length 390; Indels 1; Score 2004; DB 22; Pred. No. 2.3e-142; 0; Mismatches 99.64; 99.7%; Matches 389; Conservative Best Local Similarity Query Match

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mislpgplvtnllrflflglsalappsraqlqlhlpanrlqaveggevvlpawytlhgev 60 1 MISLPGPLVTNLLRFLFLGLSALAPPSRAQIQLHLPANRLQAVEGGEVVLPAWYTLHGEV

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sgpyscsvnvgdkggksrghsiktlelnvlvppappscrlggvphvganvtlscgsprsk 180 PAVQYQWDROLPSFQTFFAPALDVIRGSLSLTNLSSSMAGVYVCKAHNEVGTAQCNVTLE 121 181

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pavqyqwdrqlpsfqtffapaldvirgslsltnlsssmagvyvckahnevgtaqcnvtle 240 181 g

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361 IPGGVSSSGLSRMGAVPVMVPAQSQAGSLV 390 ठ

ipggvsssglsrmgavpvmvpagsgagslv 390 361

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RESULT 14 AAY76303

AAY76303 standard; Protein; 389 AA.

(first entry) 23-MAR-2000

AAY76303

Fragment of human secreted protein encoded by gene 29.

foetal deficiency; blood disorder; immune system disorder; inflammation; autoimmune disease; allergy; Alzheimer's disease; cognitive disorder; atherosclerosis; diabetes; cardiovascular disorder; kidney disorder; Human; secreted protein; cancer; tumour; developmental abnormality; schizophrenia; arthritis; asthma; psoriasis; sepsis; skin disorder; digestive disorder; endocrine disorder; infection; AIDS; leukaemia; therapy

Homo sapiens

WO9958660-A1

18-NOV-1999

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99WO-US09847. 06-MAY-1999;

98US-0085180. 98US-0085921 98US-0085906 98US-0085920 98US-0085922 98US-0085923 98US-0085924 98US-0085094 98US-0085105 12-MAY-1998; 12-MAY-1998; 12-MAY-1998; 18-MAY-1998; 18-MAY-1998 18-MAY-1998 18-MAY-1998 18-MAY-1998; 18-MAY-1998; 18-MAY-1998 18-MAY-1998

98US-0085928 98US-0085925 98US-0085927 18-MAY-1998;

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(HUMA-) HUMAN GENOME SCI INC

240

Carter KC, Moore PA; Shi Y, Young PE, Wei F, Brewer LA, Florence K, Ni J, Rosen CA, Endress GA, Ebner R; Lafleur DW, Ruben SM, Olsen HS,

WPI; 2000-062296/05.

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New isolated human genes and the secreted polypeptides they encode, useful for diagnosis and treatment of e.g. cancers, neurological disorders, immune diseases, inflammation or blood disorders

Disclosure; Page 440-441; 475pp; English

2 2 2 2 2 2 2

diagnosed by determining the amount of the new polypeptides in a sample AAY76124 to AAY76223 are the secreted proteins encoded by the 97 human genes. This sequence represents a fragment of one of the human secreted AAZ65250 to AAZ65350 represent 97 isolated human secreted protein genes proteins. The genes and their corresponding secreted polypeptides are e.g. by protein or gene therapy. Also pathological conditions can be useful for preventing, treating or ameliorating medical conditions,

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Gaps

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Indels

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Mismatches

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Human; shear stress-response protein; vascular disease; Human shear stress-response protein SEQ ID NO: AAB90818 standard; Protein; 390 AA (KYOW) KYOWA HAKKO KOGYO KK 02-OCT-2000; 2000WO-JP06840. 99JP-0280976 (first entry) H WMICON (/ICON) 01-OCT-1999;

Length 390;

DB 22;

Score 2004;

99.6%;

390 AA;

Sequence

8888888888

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Best Local Similarity

Query Match

Pred. No. 2.3e-142,

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The present invention provides the protein and coding sequences of t
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                                                                                                                                                                                                                                                                                                                                                                                  61 SSSOPWEVPPVMWPPKQKEKEDQVLSYINGVTTSKPGVSLVYSMPSRVLSLRLEGLO
                                                                                                                                                                                                                                                                                                                                                                                                     sssqpwevpfvmwffkqkekedqvlsyingvttskpgvslvysmpsrnlslrveglc
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                                                                                                                                                                                                                                                                                                                                                                                                                         SGPYSCSVNVQDKQGKSRGHSIKTLELNVLVPPAPPSCRLOGVPHVGANVTLSCQSI
                                                                                                                                                                                                                                                                                                                                                  1 MISLPGPLVTNLLRFLFLGLSALAPPSRAQLQLHLPANRLQAVEGGEVVLPANYTLHG
                                                                                                                                                                                                                                                                                                                                                                                           181 PAVQYQWDRQLPSFQTFFAPALDVIRGSLSLTNLSSSMAGVYVCKAHNEVGTAQCM
                                                                                                                                                                                                                                                                                                                                                                                                                                   TANGO 281 and INTERCEPT 258. These are useful in the treatment of
                                                                                                                                                                                                                                                                                                          Length 370;
                                                                                                                                                                                                                               human and murine secreted or transmembrane proteins TANGO 253,
                                                                                                                                                                             disorders, brain disorders, tumors, diabetes, arthritis, multiple
                                                                                                                                                                                                                                                          pulmonary, olfactory, immunological, neurological,
                                                                                                                                                                                                                                                                                                                              Indela
                                                                                                                                                                        atherosclerosis, infection, autoimmune diseases, obesity, ear
  neurological disorder; pulmonary disorder; immunological disorder;
                                                                                                                                                                                                                                                                                                                                                               New nucleic acids for treating diseases and disorders, e.g.
                                                                                                                                                                                                                                                                                                                  DB 22;
                                                                                                                                                                                                                                                                                                                         pred. No. 1.8e-122;
                                                                                                                                                                                                                                                                                                                                      3; Mismatches
 INTERCEPT 258; coronary disorder; olfactdry disorder;
                                                                                                                                                                                                                                                                                                                      Score 1738.5;
Human; mouse; secreted protein; Tango253; Tango
                                                                                                                                                                                                                     Claim 9; Page 228-229; 332pp; English.
                                                                                                                                                                                                                                                                                 developmental and kidney disorders.
                          developmental disorder; kidney disorder.
                                                                                                                                                                                                                                                                                                                               86.4%;
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                                                                                                                                  (MILL-) MILLENNIUM PHARM INC.
                                                                                                                   96536536-8066
                                                                                                   19-JUN-2000; 2000WO-US16883.
                                                                                                                                                                                                                                                                                                                                           Best Local Similarity
                                                                                                                                                                                                               sclerosis and asthma -
                                                                                                                                                                                                                                                                                                            370 AA;
                                                                                                                                                                         WPI; 2001-050109/06.
                                                                                                                                                         Leiby KR, McKay C,
                                                                                                                                                                                                                                                                                                                                                        Matches 341;
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Human INTERCEPT ...
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                                                                          WO200078808-A1.
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                                                                                            28-DEC-2000.
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                                                                                                The sequences shown in AAY76224 to AAY76424 represent fragments of the
                                                                                                                                                                      Gapa
                                                                       disorders, atherosclerosis, diabetes, cardiovascular disorders, kidney
                                                                                                                                                                                                                                    autoimmune diseases, inflammation, allergies, Alzheimer's and cognitive
                                                                                                                                                                                            MISLPGPLVTNLLRPLPLGLSALAPPSRAQLQLHLPANRLQAVEGGEVVLPAWYTLHGEV
                                       diagnosis or treatment of cancer, tumours, developmental abnormalities
                                                and foetal deficiencies, blood disorders, diseases of the immune system,
                                                                                                                                                                                                    described for each of the 97 genes, based on which tissues they
               Learng the presence of mutations in the new genes. Specific
                                are most highly expressed in, and include developing products for the
                                                                 disorders, schizophrenia, arthritis, asthma, psoriasis, sepsis, skin
                                                                                          polypeptides are also useful for identifying their binding partners.
                                                                                  digestive/endocrine disorders, infections and AIDS. The
                                                                                                                                                                         ö
                                                                                                                                                        Length 389;
                                                                                                                                                                           IndelB
                                                                                                                                                              99.6%; Score 2003; DB 21;
                                                                                                                                                                       pred. No. 2.7e-142;
                                                                                                                                                                                                                                                                                                                                                                                                                                 361 ipggvasaglarmgavpvmvpagagaga 389
                                                                                                                                                                                                                                                                                                                                                                                                                361 IPGGVSSSGLSRMGAVPVMVPAQSQAGSL 389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              standard; Protein; 370 AA.
                                                                                                                                                                                   1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                          99.78;
                                                                                                                                                                                            Matches 388; Conservative
                                                                                                                                                                                         Best Local Similarity
                                                                                                                                                         389 AA;
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Query Match

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Sequence

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301 SDTISKNGTLSSVTSARALRPPHGPPRPGALTPTPSLSSQALPSPRLPTTDGA 353	-	ঠ
241 vstgpgaavvaeavvgtivglgllaglvllyhrrgkaleepandikedaiaprtipwpks 300		da da
241 VSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHRRGKALEEPANDIKEDAIAPRTLPWPKS 300	•	S

Search completed: August 19, 2002, 17:09:06 Job time: 3349 sec

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•	GenCore version 4.5	13	176	8.7	299	4 US	US-09-462-270-2	Sequence 2, Appli
	Convright (c) 1993 - 2000 Commissen Ltd.	14	171	8.5	299	4 03	US-09-188-930-189	Sequence 189, App
		15	158.5	7.9	501	2 US	US-08-408-095-31	
		16	153.5	7.6	344	2 US	US-08-602-725-34	
OM protein - pro	protein gearch using sw model	17	152	7.6	1101	3 US	US-08-986-485-2	Sequence 2, Appli
		18	134	6.7	607	2 US	US-08-752-307B-12	Sequence 12, Appl
Run on:	August 19, 2002, 16:16:12 : Search time 24.02 Seconds	19	133	9.9	321	6 51	5169835-17	Patent No. 5169835
		20	133	9.9	464	2 US	US-08-602-725-32	Sequence 32, Appl
	396.585 Million cell	21	133	9.9	642	1 US	US-08-217-299-1	Sequence I, Appli
undates/sec		22	133	9.9	698	2 05	US-08-602-725-36	
4		23	133	9.9	734	2 05	US-08-389-459A-17	Sequence 17, Appl
Title:	US-09-902-759-39	24	133	9.9	734	3 05	US-08-987-867A-17	17,
Perfect score:	2012	25	132.5	9.9	252	2 05	US-08-414-657D-56	Sequence 56, Appl
	1 MISLPGPLVTNLLRFLFLGLSRMGAVPVMVPAQSQAGSLV 390	26	132.5	9.9	287	2 05	US-08-414-657D-48	Sequence 48, Appl
•		27	132.5	9.9	304	2 US	US-08-414-657D-44	Sequence 44, Appl
Scoring table:	BLOSUM62	28	132.5	9.9	308	2 US	US-08-414-657D-46	Sequence 46, Appl
	Gapop 10.0 , Gapext 0.5	29	132.5	9.9	325	2 05	US-08-414-657D-2	2, 4
		30	132.5	9.9	325	2 05	US-08-414-657D-41	
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		32	132.5	9.9	1241	4	US-09-040-774-2	Sequence 2, Appli
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	Listing first 45 summaries	40	128.5	6.4	252	2 U	US-08-414-657D-57	Sequence 57, Appl
		41	128.5	6.4	287	2 09	US-08-414-657D-49	Sequence 49, Appl
Database :	Issued Patents AA:*	42	128.5	6.4	310	2 0	US-08-414-657D-45	45,
•	1: /cqn2 6/ptodata/2/iaa/5A COMB.pep:*	43	128.5	6.4	315	ä 7	US-08-414-657D-47	_
	2: /cqn2 6/ptodata/2/iaa/5B COMB.pep:*	44	128.5	6.4	338	2	US-08-414-657D-42	
	3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*	45	128.5	6.4	338	5	US-08-414-657D-43	Sequence 43, Appl
	4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*							
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35	33.5	17.6	365	4	US-08-928-383B-26	Sequence 26, Appl	••
	346	17.2	365	4	US-08-928-383B-2	Sequence 2, Appli	••
34	15.5	17.2	365	4	US-08-928-383B-23	Sequence 23, Appl	•-
	343	17.0	365	7	US-08:979-424-3	Sequence 3, Appli	••
	343	17.0	365	4	US-09-272-496-2	Sequence 2, Appli	••
	297	14.8	319	-	US-08-597-495B-22	Sequence 22, Appl	••
	297	14.8	319	4	US-09-068-051A-22	Sequence 22, Appl	
29	290.5	14.4	365	4	US-08-928-383B-24	Sequence 24, Appl	••
28	289.5	14.4	387		4. US-09-175-928-2	Sequence 2, Appli	••
	258	12.8	318	4	US-09-068-051A-32	Sequence 32, Appl	

APPLICANT: Lal, Preeti
APPLICANT: Corley, Neil C.
TITLE OF INVENTION: VIRAL RECEPTOR PROTEIN
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Dr.
CITY: Palo Alto
STATE: CA
COUNTRY: USA COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible ZIP: 94304

APPLICATION NUMBER: US/08/979,424 Filed Herewith CLASSIFICATION: FILING DATE:

PRIOR APPLICATION DATA: APPLICATION NUMBER:

ATTORNEY/AGENT INFORMATION: FILING DATE:

36,749 REFERENCE/DOCKET NUMBER: NAME: Billings, Lucy J REGISTRATION NUMBER:

ELECOMMUNICATION INFORMATION:

TELEPHONE: 650-855-0555 650-845-4166 TELEFAX:

INFORMATION FOR SEQ ID NO: TELEX:

LENGTH: 390 amino acids SEQUENCE CHARACTERISTICS STRANDEDNESS: single TYPE: amino acid

LIBRARY: LUNGPET03 linear MMEDIATE SOURCE: TOPOLOGY:

CLONE: 1232054 US-08-979-424-1 Length 390; Indels Pred. No. 3.7e-168; Score 2012; DB 2; ö 0; Mismatches 100.0%; 100.0%; Conservative Best Local Similarity Matches 390; Query Match

1 MISLPGPLVTNLLRRLFLGLSALAPPSRAQLQIHLPANRLQAVEGGEVVLPAWYTLHGEV

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SSSQPWEVPPVMWFPKQKEKEDQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLQEKD 120 19

1 MISLPGPLVTNLLRFLFLGLSALAPPSRAQLQLHLPANRLQAVEGGEVVLPAWYTLHGEV 60

SSSQPWEVPFVMWPFKQKEKEDQVLSYINGVITSKPGVSLVYSMPSRNLSLRLEGLQEKD 120 5

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241 VSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHRRGKALEEPANDIKEDAIAPRTLPWPKS

241 VSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHRRGKALEEPANDIKEDAIAPRTLPWPKS 300 SDIISKNGTLSSVISARALRPPHGPPRPGALTPTPSLSSQALPSPRLPTTDGAHPQPISP 301 SDTISKNGTLSSVTSARALRPPHGPPRPGALTPTPSLSSQALPSPRLPTTDGAHPQPISP 360

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Sequence 26, Application US/08928383B US-08-928-383B-26 RESULT

361 IPGGVSSSGLSRMGAVPVMVPAQSQAGSLV 390

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CAR, A No. 6210921el Coxsackievirus and Adenovirus APPLICANT: Robert W. Finberg, Jeffrey M. Bergelson. and Marshall S. Horwitz TITLE OF INVENTION: GENERAL INFORMATION: Patent No. 6210921 APPLICANT:

TITLE OF INVENTION: Receptor CORRESPONDENCE ADDRESS: NUMBER OF SEQUENCES:

ADDRESSEE: LAHIVE & COCKFIELD, LLP 28 State Street CITY: Boston STREET:

STATE: Massachusetts COUNTRY: USA

COMPUTER READABLE FORM: ZIP: 02109

OPERATING SYSTEM: PC-DOS/MS-DOS COMPUTER: IBM PC compatible MEDIUM TYPE: Floppy disk

Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA: SOFTWARE:

APPLICATION NUMBER: US/08/928,383B FILING DATE: 12-SEP-1997 CLASSIFICATION:

FILING DATE: 13-SEP-1996 PRIOR APPLICATION DATA: APPLICATION NUMBER:

Gaps

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NAME: Mandragouras, Amy E. REFERENCE/DOCKET NUMBER: REGISTRATION NUMBER:

ATTORNEY/AGENT INFORMATION:

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FELECOMMUNICATION INFORMATION (617) 227-7400 (617)742-4214 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS TELEPHONE: TELEFAX:

LENGTH: 365 amino acids MOLECULE TYPE: protein amino acid linear TOPOLOGY:

US-08-928-383B-26

Gabe Length 365; Indels 17.6%; Score 353.5; DB 4; 71; Mismatches 156; Pred. No. 4.7e-23; 27.8%; Matches 113; Conservative Best Local Similarity Query Match

54 67 9 VINLLRPLFL-GLSALAPPSRAQLQLHLPANRLOAVEGGEVVLPAWYTLHGEVSSSQPWE MARLICEVILCGIADPT ---- SGLSITTPEQRIEKAKGETAYLPCKFTLSPE--DQGPLD ---:

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68 UPFVMMPPKQKEKEDQVLSYINGVITSKPGVSLVYSMPSRNL 109	55 IEWLISPSDNQIVDQVILLYSGDKIYDDYYPDLKGRVHPTSNDVKSGDA 103	110 SIRLEGIQEKDSGPYSCSVNVQDKQGKSRGHSIKTLELNVLVPPAPPSCRLQGVPHVGAN 169		170 VTLSCQSPRSKPAVQYQWDRQLPSPQTFFAPAL-DVIRGSLSLTNLSSSMAGVYVCKAHN 228	မ္မ	EVGTAQCNVTLE-VSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHRRGKALEEPAND 284	11: : :	IKEDAIAPRILPWPKSSDTISKNGTLSSVTSARAI		345 PRLPTTDGAH-PQPISPIPGGVSSGLSRMGAVPVMVPAQSQAGSLV 390	319 NOVPSEDFERAPQSPTLAPAKVAAPNLSRMGAVPVMIPAQSKDGSIV 365
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Search completed: August 19, 2002, 17:09:51 Job time: 3219 sec

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B acq length: 0 34 134 6.7 204211 Pregnancy-specification of the search of t			33	135	6.7	428 2	I57486	pregnancy-specific
State Stat		length: 0	34	134	6.7	240 2	JC4121	pregnancy-specific
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PIR 71:* 2			36	133	9.9		JH0395	biliary glycoprote
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FIR.71;* PIR.71;* 133 6.6 49.2 A36109 pregnancy-specific cross		Maximum Match 100%	38	133	9.9		JH0394	biliary glycoprote
1. pir1.* 2. pir2.* 2. p			39	133	9.9	419 2	A36109	pregnancy-specific
133 6.6 526 1 A32164 blliary glycopy 13 pir; * 2 pir; * 2 pir; * 2 pir; * 3 pir; * 4			40	133	9.9	464 2	C30127	transmembrane carc
1: piri:* 2 piri:* 3: piri:* 41		PIR_71:*	41	133	9.9	526 1	A32164	biliary glycoprote
2: pir2:* 4 132.5 6.6 156 2 A33402 pregnancy-species 44 132.5 6.6 138 2 JC4776 limbic-system-s 45 132.5 6.6 138 2 JC4776 limbic-system-s 46 132.5 6.6 138 2 JC4776 limbic-system-s 47 132.5 6.6 138 2 JC4776 limbic-system-s 48 132.5 6.6 138 2 JC4776 limbic-system-s 49 132.5 6.6 138 2 JC4776 limbic-system-s 40 132.5 6.6 138 2 JC4776 limbic-s 40 132.5 6.6 138 2 JC4776 limbic-system-s 40 132.5 6.6 138 2 JC4776 limbic-s 40 132.5 8.1 1000 limbic-			4.2	133	9.9	702	A3631	carcinoembryonic
## pir4:*			rd				. •	
## 132.5 6.6 338 2 JC4776 limbic-system-a score distribution. Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution. ** Charty Score Match Length DB ID Score Match Length DB ID Junctional adhesion molecule precursor - human NyAlternate names: Fil platelet antigen; platelet adhesion molecule PAM Junctional adhesion precises: Homo sapiens (man) B-cell adhesion precises: Homo sapiens (man) B-cell adhesion precises: 17.7 3707 2 \$18252 heparan sulfate pr Riozaki, H.; Ishii, K.; Horiuchi, H.; Axai, H.; Kawamoto, T.; Okawa, 154.5 7.7 4391 2 A38996 heparan precises: Riozaki, H.; Ishii, K.; Horiuchi, H.; Axai,			43	132.5	9.9			pregnancy-specific
## Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution. Comparison of the result being printed, and is derived by analysis of the total score distribution. Summaries			44	132.5	9.9			limbic-system-asso
Pred. No. is the number of results predicted by chance to have a score of the result being printed, and is derived by analysis of the total score distribution. SUMMARIES Guery Score Match Length DB ID RESULT 1 SS6749 Score Match Length DB ID NAlternate names: F11 platelet antigen; platelet adhesion molecule PAN 176 8.7 299 2 SS6749 182.5 8.1 344 2 AA7681 B-cell adhesion pr C; Date: 27-Oct-1995 #sequence_revision 01-Feb-2002 #text_change 01-Feb-2156.5 184.5 7.7 3307 2 S18252 Description Score Match Length DB ID Nalternate names: F11 platelet adhesion molecule PAN 184.2 AA7681 B-cell adhesion pr C; Date: 27-Oct-1995 #sequence_revision 01-Feb-2002 #text_change 01-Feb-2156.5 D; Date: 27-Oct-1995 #sequence_revision 01-Feb-2002 #text_change 01-Feb-2156.5 D; Date: 27-Oct-1995 #sequence_revision 01-Feb-2002 #text_change 01-Feb-2156.5 D; Date: 27-Oct-1995 #sequence_revision 01-Feb-2002 #text_change 01-Feb-2156.5 C; Date: 27-Oct-1995 #sequence_revision 01-Feb-2002 #text_change 01-Feb-2156.5 D; Date: 27-Oct-1995 #sequence_revision 01-Feb-2002 #text_change 01-Feb-2156.5 D; Date: 27-Oct-1995 #sequence_revision 01-Feb-2002 #text_change 01-Feb-2156.5 D; Date: 27-Oct-1995 #sequence_revision 01-Feb-2002 #text_change 01			45	132.5	9.9			opioid-binding pro
SCORE greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution. SUMMARIES Query Score Match Length DB ID Query Score Match Length DB ID 176 8.7 299 2 S56749 ISS.5 7.7 3707 2 S18252 Heparan sulfate pr RESULT 1 SS6749 Junctional adhesion molecule parentsor - human Junctional adhesion practices: Home sapters (man) C; Species: Home sapters (man) C; Accession: A59406; S56749 B. C: Accession: A59406; S56749 ISS.5 7.7 4991 2 A38096 Derlecan precursor R; Ozaki, H.; Ishii, K.; Horiuchi, H.; Kawamoto, T.; Okawa,	Pred. No.	is the number of results predicted by chance to have a						
Score Match Length DB ID Score Match Length DB ID Score Match Length DB ID 176 8.7 299 2 SS6749 162.5 8.1 344 2 A27681 B-cell adhesion pr 155.5 7.7 3707 2 S18252 Description NyAlternate names: Fl1 platelet adhesion molecule PAN NyAlternate names: Fl1 platelet adhesion molecule PAN Score Match Length DB ID NyAlternate names: Fl1 platelet adhesion molecule PAN 162.5 8.1 344 2 A27681 B-cell adhesion pr C; Paccession: A59406; S56749 R; Ozaki, H.; Horiuchi, H.; Rawamoto, T.; Okawa,	score gre and is de	ater than or equal to the score of the result being printed, rived by analysis of the total score distribution.					ALIGNMENTS	
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152

A; Status: preliminary A, Molecule type: DNA A; Accession: A59406

J. Immunol. 163, 553-557, 1999
A,Title: Cutting edge: combined treatment of TNF-alpha and IFN-gamma causes redistribution of junctional adhesion molecule in human endothelial cells.

Iwamatsu, A.; Kita, T.

perlecan precursor B-cell adhesion pr transient axonal

A49356

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A; Reference number: A59406; MUID: 99323940; PMID: 10395639

sross-linking of a novel platelet receptor for monoclonal antibody F11 with 28-49,'X',51-53;62-73,'E',75-103;123,'F',125-130;'FDKDXTIYLNXY';'LT',206,'X ',208,'Q' <NAI> glycoprotein; phosphoprotein; platelet aggregation; platelet 189 RQ---LP----SFQTF--FAPALDVIRGSLSLTNLSSSMAGVYVCKAHNEVGTAQ-CNVT 238 58 PRVEWKFDQGD-TTRLVCYNNKITASYE--DRVTFLPT----GITPKSVTREDTGTYTCMV 111 129 NVQDKQGKSRGHSIKTLELNVLVPPAPPSCRLQGVPHVGANVTLSCQSPRSKPAVQYQWD 188 S--EEGGNSYG-EVK-VKLIVLVPPSKPTVNIPSSATIGNRAVLTCSEQDGSPPSEYTWF 167 168 KDGIVMPTNPKSTRAFSNSSYVLNPTTGELVPDPLSASDTGEYSCEARNGYGTPMTSNAV 227 69 PFVMWPPKQKEKEDQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLQEKDSGPYSCSV 128 antibody 9 VTNILRPLFLGISALAPPSRAQLQIHLPANRLQAVEGGEVVLPAWYTLHGEVSSSQPWEV 68 1; Note: the order of the peptides other than the amino terminus was ;26-299/Product: junctional adhesion molecule #status predicted <MAT> 30; A, Title: Mechanisms of platelet activation by a stimulatory 8.7%; Score 176; DB 2; Length 299; 5.7%; Pred. No. 0.00014; 46; Mismatches 129; Indels A; Cross-references: GB: AAD42050; NID: 95326797; PIDN: AAD42050.1 7 VERKLLCLFILAILLCSLALGSVTVHSSEPEVRIPENNPVKLSCAYS-1, Reference number: S56749; MUID:95374438; PMID:7646439 7;1-25/Domain: signal sequence #status predicted <SIG> 228 RMEAVERNVGVIVAAVLVTLILLGILVFGIWFAYSR 263 239 LEVSTGPGAAVVAGAVVGTLVGLGLLA-GLVLLYHR Search completed: August 19, 2002, 17:10:57 ;Naik, U.P.; Ehrlich, Y.H.; Kornecki, E. --25.7%; 71; Conservative Biochem. J. 310, 155-162, 1995 the Fc-gamma-RII receptor. A; Molecule type: protein Best Local Similarity A; Accession: S56749 Query Match ; Keywords: A; Gene: JAM Genetics: Matches etermined ઠે

Gaps

not

A, Residues: 1-299 <02A>

Trans more marcorn	Q9bzz2 homo sapien	Q9jkf6 mus musculu
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20	17	ίΩ
1.1	7.1	6.9
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GenCore version 4.5	Copyright (c) 1993 - 2000 Compugen Ltd.	

6.7 6.7 9.9 135 134.5 627.624 Million cell August 19, 2002, 17:11:02 ; Search time 24.06 Seconds (without alignments) Run on

OM protein - protein search, using sw model

updates/sec

Title: US-09-902-759-39

Perfect score: 2012
Sequence: 1 MISLPGPLVTNLLRFLFLGL......SRMGAVPVMVPAQSQAGSLV 390

Searched: 105224 seqs, 38719550 residues
Total number of hits satisfying chosen parameters: 105224

Gapop 10.0 , Gapext 0.5

BLOSUM62

Scoring table:

Total number of hits satisfying chosen parameters:
Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database : SwissProt_40:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

RESULT 1

SUMMARIES

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Result		Query				
No.	Score	Match	Match Length DB	DB	日	Description
-	353.5	17.6	365	Á	CXAR MOUSE	P97792 mus musculu
64	343	17.0	365	_	CXAR HUMAN	P78310 homo sapien
m	297	14.8	319	H	A33 HUMAN	Q99795 homo sapien
4	212	10.5	298	, ,	JAM2 HUMAN	P57087 homo sapien
ιΩ	176	8.7	299	_	JAM1 HUMAN	Q9y624 homo sapien
ø	168.5	8.4	300	_	JAM1 MOUSE	088792 mus musculu
7	167.5	8.3	298	H	JAMI BOVIN	Q9xt56 bos taurus
80	163	8.1	344	_	CEAG HUMAN	P40199 homo sapien
ტ	158.5	7.9	4393	н	PGBM_HUMAN	P98160 homo sapien
10	155.5	7.7	3707	_	PGBM MOUSE	Q05793 mus musculu
::	153.5	7.6	847	_	CD22 HUMAN	P20273 homo sapien
12	153.5	7.6	1040	_	AXO1 HUMAN	Q02246 homo sapien
13	151.5	7.5	1036	_	AXO1_CHICK	P28685 gallus gall
14	150.5	7.5	521	-4	CEA1 MOUSE	P31809 mus musculu
15	150.5	7.5	1040	_	AXO1 RAT	P22063 rattus norv
16	146	7.3	515	Н	PVR1_PIG	Q9g176 sus scrofa
17	145	7.2	517	Н	PVR1 HUMAN	O15223 homo sapien

homo sapien sapien Q60625 mus musculu homo sapien mus musculu 215238 homo sapien rattus norv homo sapien schistocerc homo sapien rattus norv mus musculu homo sapien P11834 bos taurus Q62813 rattus norv gallus gall rattue norv gallus gall homod P13592 200688 016557 P06731 013449 P32736 P40198 026474 092692 P16573 035136 015394 616860 P32507 015109 014982 000887 098892 P13688 OPCM BOVIN PSG3_HUMAN G55A_CHICK CEA1_HUMAN LAMP HUMAN OPCM HUMAN ECTO_RAT NCM2_MOUSE LAMP_RAT NCM2_HUMAN LAMP_CHICK CEAS HUMAN LACH SCHAM PSG4_HUMAN PSGB_HUMAN CAS_MOUSE PVR2_MOUSE RAGE HUMAN CEAS HUMAN PVR2_HUMAN NCA2_HUMAN PSG5 HUMAN OPCM RAT KILO_RAT 519 917 345 338 349 538 761 837 702 345 837 6.5 6.5 6.4 6.9 9.9 9.9 6.5 6.5 6.5 6.4 9.9 9.9 9.9 6.5 6.4 6.4 6.3 132.5 132.5 132.5 132 131.5 131 130 129.5 128.5 126.5 135.5 133 131.5 130.5 130 128 36 38

ALIGNMENTS

Bergelson J.M., Cunningham J.A., Droguett G., Kurt-Jones E., Krithivas A., Hong J.S., Horwitz M.S., Crowell R.L., Finberg R.W., Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Coxsackievirus and adenovirus receptor homolog precursor (mCAR). "Isolation of a common receptor for Coxsackie B viruses and 01-MAR-2002 (Rel. 41, Last annotation update) 365 AA 30-MAY-2000 (Rel. 39, Last sequence update) PRT; MEDLINE=97190109; PubMed=9036860; 30-MAY-2000 (Rel. 39, Created) STRAIN=C57BL/6J; TISSUE=Liver; Science 275:1320-1323(1997). STANDARD; adenoviruses 2 and 5."; Mus musculus (Mouse). SEQUENCE FROM N.A. NCBI_TaxID=10090; P97792; 009052; CXADR OR CAR. CXAR MOUSE 98999

SEQUENCE FROM N.A.

STRAIN-C3H/MAI;

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SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   (See
                                                                                                                                                                                                                                                                                                               between the Swiss Institute of Bioinformatics and the EMBL outstation
                                                                                                                                                                                                                                                                                                                                                  restrictions on
                                                                                                                                                                                                                                                                                                                                                                                                                  and for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                tmmunoglobulin domain; Receptor; Transmembrane; Glycoprotein; Signal;
                                 Ç
                                                                                                                                                                                                                                                                                 This SWISS-PROT entry is copyright. It is produced through
                               *HCAR and MCAR: the human and mouse cellular receptors for subgroup
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COXSACKIEVIRUS AND ADENOVIRUS RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                   다
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                                                                                                                                                                                                                                                                                                                                                                                                                                                agreement
                                                                                                                                                                                                                                 -!- SIMILARITY: CONTAINS 2 IMMUNOGLOBULIN-LIKE C2-TYPE DOMAINS
                                                                                                                                                 "The murine CAR homologue (mCAR) is a receptor for coxsackie B
                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                  use by non-profit institutions as long as its content
                                                                                                                                                                                                    -1- SUBCELLUJAR LOCATION: Type I membrane protein.
-1- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY.
                                                                                                                   STRAIN-C57BL/6J; TISSUR-Liver; Bergelson J.M., Krithivas A., Crowell T.L., Finberg R.W.;
                                                                                                                                                                                    Submitted (MAY-1997) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                   Usage
                                                                                                                                                                                                                                                                                                                                                  There are no
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               IG-LIKE C2-TYPE DOMAIN 2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VV (IN REF. 2 AND 3).
                                                                 Proc. Natl. Acad. Sci. U.S.A. 94:3352-3356(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                   license
                                                                                                                                                                                                                                                                                                                                                                                                                  modified and this statement is not removed.
                                                   adenoviruses and group B coxsackieviruses.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BY SIMILARITY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BY SIMILARITY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                  the European Bioinformatics Institute.
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  KDLINE=97250541; PubMed=9096397;
                  Tomko R.P., Xu R., Philipson L.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 entities requires
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                InterPro; IPR003006; Ig_MHC.
InterPro; IPR003598; Ig_c2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; Y10320; CAA71368.1; -.
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SMART; SM00408; IGC2; 1.
                                                                                                                                                                      viruses and adenoviruses.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MGD; MGI:1201679; Cxadr.
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                                                                                                     SEQUENCE FROM N.A.
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365 AA; 39947 MW; 5445B4B52A34B2A2 CKU64;

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ਜ`ਂ	1 MARILCFVILCGIADFTSGLSITTPEQRIBKAKGETAYLPCKFTLSPEDQSFLD	4
89	68 VPFVMWFFKQKEKEDQVLSYINGVTTSKPGVSLVYSMPSRNL 109	109
55	: IEWLISPSDNQIVDQVIILYSGDK	103
110		169
104		157
.70	170 VILSCQSPRSKPAVQYQMDRQLPSFQTFFAPAL-DVIRGSLSLINLSSSMAGVYVCKAHN	228
158	: FKLKCEPKEGSLE	216
229	EVGTAQCNVTLE-VSTGPG	284
217	: : : : : : : :	276
285		344
277		318
345	5 PRIPTIDGAH-PQPISPIPGGVSSGLSRMGAVPWNVPAQSQAGSLV 390	
119	PERA	

Search completed: August 19, 2002, 17:18:28 Job time: 446 sec

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to have a being printed, RESULT 1			1221	0.6	181		
15 183 9.1 300 11 Q9JHY1 36 176 8.7 298 11 Q9JI59 37 171 8.5 381 4 Q9JI59 38 169.5 8.4 309 4 Q9GFL1 Q 40 168.5 8.4 310 4 Q9BK67 Q 40 168.5 8.3 310 11 Q9DBB7 42 166 8.3 310 11 Q9DBB7 44 166 8.3 310 11 Q9DBB7 44 166 8.3 310 11 Q9DIM9 44 164 8.2 538 4 Q9NWQ7 Q 45 163.5 8.1 512 4 Q9KDNB to have a being printed, RESULT 1 CO PGAP7 DT Q9GAP7, DT C1-DEC-2001 (TEMBLE-1 19, Last sequence escription DT 01-DEC-2001 (TEMBLE-1 19, Last annotate	**************************************	3.4	186.5	. 6	977	4 Q96RD9	o ı
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42 166 8.3 310 11 Q9EF 43 166 8.3 310 11 Q9EF 44 164 8.2 538 4 Q9WWG 45 163.5 8.1 512 4 Q96DW to have a being printed, RESULT 1 tion. ID Q96AP7 AC Q96AP7 AC Q96AP7 DT 01-DEC-2001 (TrEMBLrel. 19, Last DT 01-DEC-2001 (TrEMBLrel. 19, Last DT 01-DEC-2001 (TrEMBLrel. 19, Last	ant:*	41	166.5	8.3	310	11 09081	
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TLVGLGLLAGLVLLYHRRGKALEEPANDIKEDALAPRTLPWPKS 300
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ded=11279107;
F., Penta K., Rezaee M., Yang E., Wohlgemuth J.,
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                                                jobulin family adhesion molecule selectively
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                                                                                                                                                                     99.9%; Score 2009; DB 4; Length 390; 99.7%; Pred. No. 1.7e-155; Ive 1; Mismatches 0; Indels
                                                                                                                    1208 MW; CSE3EEBSF41B6EEC CRC64;
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PROTEIN.
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120

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61 EESWSHPREVPILIWFLEQEGKEPNQVLSYINGVMTNKPGTALVHSISSRNVSLRLGALQ 120
                                                                                                                                                            "Cloning of an immunoglobulin family adhesion molecule selectively
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Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       394 AA; 41810 MW; 3D2B354943A2227D CRC64;
                                                                                                                         Hirata K.-I., Ishida T., Penta K., Rezaee M., Yang
                                                                                                                                                                                                                                                                                   69.4%; Score 1397; DB 11; 72.3%; Pred. No. 1.1e-105;
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EMBL; AP361882; AAK51504.1; -.
                                                                                                           MEDLINE=21238298; PubMed=11279107;
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                                                                                           STRAIN-SWISS WEBSTER/NIH;
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                                         NCBI_TaxID=10090;
                                                                                                                                              Quertermous T.;
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                                                                              Ξ.
                                                                                                                                                                                                                                                      Length 390;
                                                                              Hirai
                                                                                                               "Isolation of full-length cDNA clones from macaque brain
                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                  CDBF63F2BD464EF5 CRC64;
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                                                                                                                                                                                                                                                      Score 1931; DB 6;
Pred. No. 3.8e-149;
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B
                                                                          Tanuma R., Iseki
                                                                                                                                                                                                                                                                                       6; Mismatches
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                                                                                             Suzuki Y., Sugano S., Hashimoto K.;
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                                                                                                                                                                                                   390 AA; 40946 MW;
                                                                            Osada N., Hida M., Kusuda J.,
                                                                                                                                                                                                                                                       96.0%;
96.4%;
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                                                            TISSUE=TEMPORAL LOBE RIGHT;
                                                                                                                                                                                                                                                                                     Conservative
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                                            SEQUENCE PROM N.A.
       NCBI_TaxID=9541
                                                                                                                                 libraries.";
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240 297

117

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Indels

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121 EGDSGTYRCSVNVQNDEGKS1GHS1KS1ELKVLVPPAPPSCSLLM4VF1VGINVTLMCKSF 180
                                                                     178 RSKPAVQYQWDRQLP
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                                  (TrEMBLrel. 19, Last annotation update)
       01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus Mus musculus (Mouse)

NCBI_TaxID=10090;

ESAM OR 2310008D05RIK.

SECUENCE FROM N.A.

MEDLINE-21085660; PubMed-11217851; STRAIN-C57BL/6J; TISSUE-TONGUE

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Punctional annotation of a full-length mouse cDNA collection." Nature 409:685-690(2001)

EMBL; AK009223; BAB26146.1; (GD; MGI:1916774; Esam.

nterPro; IPR003599; Ig.

interPro; IPR003600; Ig_like. InterPro; IPR003006; Ig_MHC

SMART; SM00409; IG; 1. Pfam; PF00047; ig; 2.

021B29BE2B05F494 CRC64; 22352 MW; SMART; SM00410; IG_like; 1. 204 AA; SEQUENCE

Gaps Length 204; Indels 31.9%; Score 641.5; DB 11; 38; Pred. No. 1.5e-44; 25; Mismatches 66.2%; Conservative Best Local Similarity Matches 129; Query Match

1 MILQAGTPETSLLRVLFLGLSTLAAFSRAQMELHVPPGLNKLEAVEGEEVVLPAWYTMAR 60 1 MISLPGPLVTNLLRFLFLGLSALAPPSRAQLQLHLP--ANRLQAVEGGEVVLPAWYTLHG 58 g ठ

59 EVSSSQPWEVPFVMWPFKQKEKE-DQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLQ 117

61 BESWSHPREVPILIWPLEQEGKEPNOVLSYINGVMTNKPGTALVHSISSRNVSLRLGALQ 120 셤

118 EKDSGPYSCSVNVQDKQGKSRGHSIKTLELNVLVPPAPPSCRLQGVPHVGANVTLSCQSP 177

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181 RSKPTAQYQWERLAP 195 a

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